

Product Datasheet - Technical Specifications



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Monitoring and Control Solutions

SP Series Brochure

DIN-Rail Mount

Easy Configuration

Slim Design



Space-Saving 2/4-Wire Isolated Splitters

Signal Splitters: SP Series



SP Series Thin 2/4-Wire Splitters



Introduction

The new SP Series splitters accommodate a broad variety of applications and are software-configurable for precise conditioning of current, voltage, or temperature input signals. Eight models provide dual isolated outputs proportional to a single input, with a choice of process control signal formats.

Input

Thermocouple, AC/DC current, millivolt/voltage

Output

SP230 Series: 4-20mA current (sink or source)
SP330 Series: scalable current or voltage output

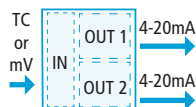
Power

- SP230 Series: 7-32V DC loop/local power
- SP330 Series: 6-32V DC external power

Key Features and Benefits

- Space saving 17.5mm housing
- Easy setup via USB with Windows® configuration software
- Supports sink/source wiring
- 2-wire, loop-powered / 4-wire, externally powered
- SP230 Series: -40 to 80°C / SP330 Series: -40 to 75°C
- Current, voltage, and temperature splitters
- Adjustable filtering levels
- Ability to scale inputs differently for each output
- Shock and vibration resistant
- CE Compliant. UL/cUL Class 1 Div 2 Zone 2 approvals. ATEX and IECEx Certified.

SP233 Thermocouple, Millivolt Input

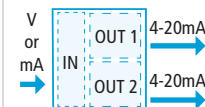


Input

- Type J,K,T,R,S,E,B,N thermocouple
- $\pm 100\text{mV}$

[See data sheet](#)

SP236 Current, Millivolt Input

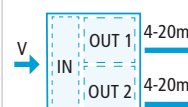


Input

- $\pm 1\text{mA}$, $\pm 20\text{mA}$
- 0-20mA, 4-20mA
- 0-11.17mA (for AC sensor)
- 0-500mV
- $\pm 5\text{V}$

[See data sheet](#)

SP237 Process Voltage Input

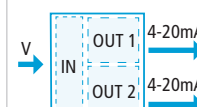


Input

- $\pm 1\text{V}$ DC
- $\pm 5\text{V}$ DC
- $\pm 10\text{V}$ DC

[See data sheet](#)

SP238 High Voltage Input

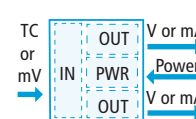


Input

- $\pm 15\text{V}$ DC
- 0-15V DC
- $\pm 150\text{V} / \pm 75\text{V}$ DC
- 0-150V
- 0-5V DC

[See data sheet](#)

SP333 Thermocouple, Millivolt Input

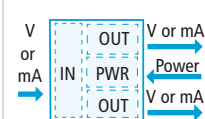


Input

- Type J,K,T,R,S,E,B,N thermocouple
- $\pm 100\text{mV}$

[See data sheet](#)

SP336 Current, Millivolt Input

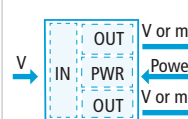


Input

- $\pm 1\text{mA}$, $\pm 20\text{mA}$, $\pm 500\text{mA}$
- 0-20mA, 4-20mA
- 0-11.17mA (for AC sensor)
- 0-500mV

[See data sheet](#)

SP337 Process Voltage Input



Input

- $\pm 1\text{V}$ DC
- $\pm 5\text{V}$ DC
- $\pm 10\text{V}$ DC

[See data sheet](#)

SP338 High Voltage Input



Input

- $\pm 15\text{V}$ DC
- $\pm 75\text{V}$ DC
- $\pm 150\text{V}$ DC

[See data sheet](#)

Signal Splitters: SP Series

Key Features



Removable Terminal Blocks

Pluggable terminal blocks simplify wiring for easy installation and removal of modules.

2-wire, Loop-powered 4-wire, External-powered

SP230 Series: Power is received from the output loop (2-wire).

SP330 Series: 6-32V DC power connects (4-wire) on a terminal block, a rail bus, or both for redundancy.

Scalable Current or Voltage Output

SP230 Series: Supports sink or source 4-20mA output

SP330 Series: Supports scalable current or voltage output ranges: 0-20mA, 4-20mA, $\pm 5V$, $\pm 10V$, 0-5V, 0-10V

Simple Configuration

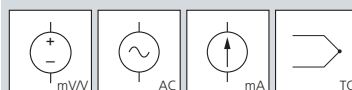
A USB connection to a Windows PC or Android device enables simple, precise configuration of I/O ranges and a variety of operational settings with free software.



Space Saving

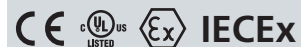
A strikingly thin enclosure, at only 17.5mm wide, to easily achieve high-density DIN-rail mounting.

Input Options



Rugged Design

Wide ambient temperature operation, shock and vibration-resistant, as well as CE and UL/cUL Class 1, Division 2, ATEX Zone 2 approved and IECEx certified.



Signal Splitters: SP Series



General Operation and Performance Specifications



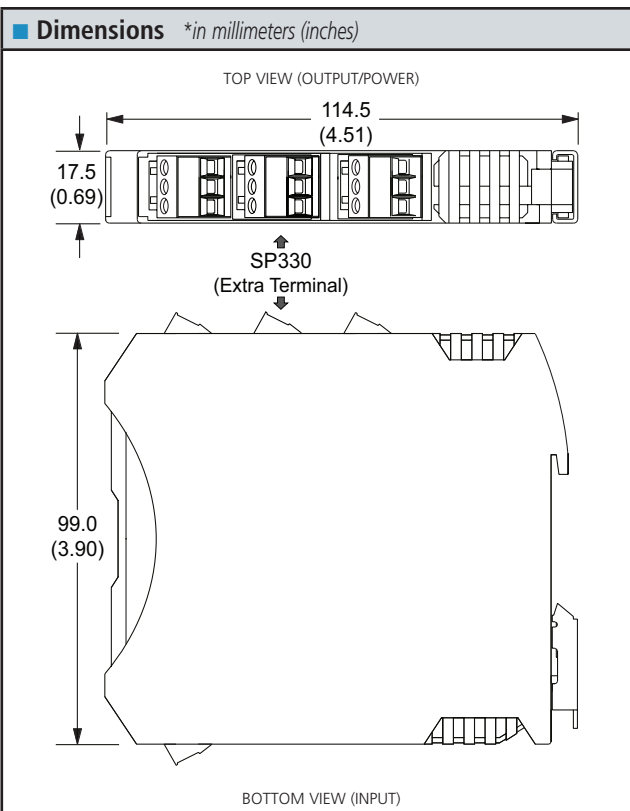
The following specifications are common to all SP Series splitter modules.

■ USB Interface	
USB Connector	USB Mini-B type socket, 5-pin.
USB Data Rate	12Mbps. USB v1.1 and 2.0 compatible.

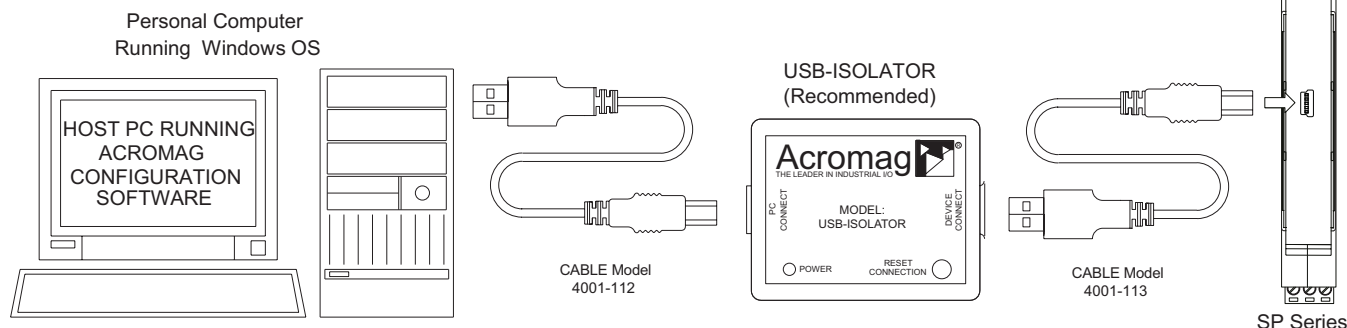
■ Output	
Output Ranges	0-20mA, 4-20mA, $\pm 10V$, 0-10V.
Accuracy	$\pm 0.05\%$ of span typical, $\pm 1.0^\circ C$, $\pm 0.1mV$.

■ Environmental	
Operating Temperature	SP230 Series: -40 to $80^\circ C$ (-40° to $176^\circ F$). SP330 Series: -40 to $75^\circ C$ (-40° to $167^\circ F$).
Storage Temperature	-40 to $85^\circ C$ (-40 to $185^\circ F$).
Relative Humidity	5 to 95% non-condensing.
Power Requirement	SP230 Series: 7-32V DC SELV (Safety Extra Low Voltage), 24mA max, loop power. SP330 Series: 6-32V DC external supply, 1.5W max.
Isolation	1500V AC peak. 250V AC (354V DC) continuous between input, output, and power circuits.
Shock and Vibration Immunity	Vibration: 4g, per IEC 60068-2-64. Shock: 25g, per IEC 60068-2-27.
Electromagnetic Compatibility (EMC) Compliance	Radiated Emissions: BS EN 61000-6-3, CISPR 16. RFI: BS EN 61000-6-1, IEC 61000-4-3. Conducted RFI: BS EN 61000-6-1, IEC 61000-4-6. ESD: BS EN 61000-6-1, IEC 61000-4-2. EFT: BS EN 61000-6-1, IEC 61000-4-4. Surge Immunity: BS EN 61000-6-1, IEC 61000-4-5
Approvals	CE compliant. UL/cUL listing. ATEX Certified. IECEx certification. Designed for Class I; Division 2; Groups ABCD; Zone 2.

■ Physical	
General	General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail.
Case Material	Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.
I/O Connectors	Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.
Shipping Weight	0.5 pounds (0.22 Kg) packed.



SP Series USB Splitter Connections



Signal Splitters: SP Series

Module Configuration



SP236 Configuration Software

File

Communication Setup I/O Config/Test Calibration

DEVICE SELECT

Device: SP236-0600-1234567

Close

Model: SP236-0600

Serial Number: 1234567

Manufacturer: Acromag Inc

Status: Device opened successfully

Reset Device

SP236 Configuration Software

File

Communication Setup I/O Config/Test Calibration

CONFIGURE I/O

Get I/O Config

Input Type: $\pm 20\text{mA}$

Input Filtering: High (1142mS)

Status: No Device Connected!

I/O Scaling

Connect Input to: TB1

Input Scaling for Output Channel 1:

-20.000 mA = 4.000 mA

20.000 mA = 20.000 mA

Input Scaling for Output Channel 2:

-20.000 mA = 4.000 mA

20.000 mA = 20.000 mA

Output Limits

Channel 1 Range Minimum:

Enabled 3.700 mA

Disabled

Channel 1 Range Maximum:

Enabled 20.700 mA

Disabled

Channel 2 Range Minimum:

Enabled 3.700 mA

Disabled

Channel 2 Range Maximum:

Enabled 20.700 mA

Disabled

Set to Namur Compliant Range Limits

Send I/O Config

TEST I/O

Start Polling

mA

Click "Start Polling" to poll the input and display its value. The LED next to the button will flash when polling is active.

Click "Stop Polling" to discontinue polling the input.

SP236 Configuration Software

File

Communication Setup I/O Config/Test Calibration

CALIBRATION

Input

Input Cal Instructions

Zero Full Scale

Output

Output Cal Instructions

Output Channel: 1

Coarse Adjustment

Fine Adjustment

Zero Full Scale

CALIBRATION STATUS

FACTORY SETTINGS

Restore Factory Calibration

Restore to Factory Default

SP236-0600 CONFIGURATION CALIBRATION DIAGNOSTIC CENTER

INPUT

Currently Calibrating: J Type

To change Input Type, go to the Configuration Tab

Connect a precise voltage of 0 millivolts to TB1 before starting calibration.

CALIBRATE ZERO SCALE

Connect a precise voltage of 39.132 millivolts to TB1 before starting calibration.

CALIBRATE FULL SCALE

OUTPUT

Output Channel: Channel 1

Currently Calibrating: 4-20 milliamps

Use a Digital Multimeter to measure transmitter output signal. To calibrate the output, use the slider, coarse, and fine adjustment buttons below to adjust to required output values listed below.

Output Adjustment Slider:

Coarse Adjustment:

Device status: DEMO MODE

SP236-0600 WIRING DIAGRAMS

Input Wiring

Sinking Output Wiring

Alternative Sinking Output

Sourcing Output Wiring

SP236-0600

CONFIGURATION CALIBRATION DIAGNOSTIC CENTER

INPUT

Currently Calibrating: J Type

Note: J Type input range calibrates both J Type and J Type ranges

Connect a precise voltage of 0 millivolts to the Head (H) terminal block before starting calibration.

CALIBRATE ZERO SCALE

Connect a precise voltage of 39.132 millivolts to the Head (H) terminal block before starting calibration.

CALIBRATE FULL SCALE

OUTPUT

Currently Calibrating: 4-20 milliamps

Note: 4-20mA output range calibrates both 4-20mA and 4-20mA ranges

Use a Digital Multimeter to measure transmitter output signal. To calibrate the output, use the slider, coarse, and fine adjustment buttons below to adjust to required output values listed below.

Device status: Connected

Screen shots of Windows-based splitter configuration software. Using simple pull-down menus and user-input, your splitter is ready for use in a snap.

Screen shots of the [Agility App for Android](#), allowing for mobile configuration in the field.

Signal Splitters: SP Series



Accessories



◆ Configuration Software



SP Series Configuration

Simple to use, whether you need the full software interface package (includes USB isolator and cables) or just the configuration software itself. Acromag makes it easy to get started.

Acromag Agility™ Config Tool

Easy to download, configuration tool mobile app for free download at the [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility).

Ordering Information

TTC-SIP

Software Interface Package for Acromag SP/TT Series. Includes configuration software CD-ROM, USB-isolator and two USB cables (4001-112, 4001-113)

SP230-Config/Cal, SP330-Config/Cal

Factory custom configuration/calibration service. Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

◆ Bus-Kit



TT Bus-Kit

DIN rail bus power connector and left/right terminal blocks. One kit supports multiple SP Series Splitters or TT Series transmitters.

Ordering Information

TT BUS-Kit

DIN rail bus power connector and left/right terminal blocks for SP or TT Series.

◆ Mounting Hardware



Din-Rail Mounting

For your convenience, Acromag offers several mounting accessories to simplify your system installation. Our 19" rack-mount kit provides a clean solution for mounting your I/O modules and a power supply. Or you can buy precut DIN rail strips for mounting on any flat surface.

Ordering Information

20RM-16-DIN

19" rack-mount kit with DIN rail.

DIN RAIL 3.0

DIN RAIL 16.7

DIN rail strip, Type T, 3 inches (75mm) or 16.7 inches (425mm)

◆ Power Supplies



Universal Slimline Power Supplies

Input Power Requirement
Universal Input (85-264V AC / 100-370V DC)
Output
10W, 15W, 30W, 60W, 90W, 120W, 240W

Ordering Information

PSSR-VB24

Power supply, 15W, 0.65A at 24V DC

PSSR-VD24

Power supply, 60W, 2.5A at 24V DC

Visit www.acromag.com for additional models and more information.

◆ USB Isolator



USB-to-USB Isolator

This compact, industrial-grade isolator provides a high-voltage isolation barrier between a computer and a connected USB device; protecting equipment from electrical surges, transient voltage spikes, and ground loop currents.

Ordering Information

USB-Isolator

USB isolator, includes USB cable (Part # 4001-112) for isolator-to-PC connection

◆ USB Cables



USB Cables

Cables for PC-to-USB isolator, USB isolator-to-transmitter connections, and mobile device-to-USB isolator-to-transmitter connections.

Ordering Information

4001-112

USB Cable, Type A to Type B, 1 meter

4001-113

USB Cable, Type A to Mini-B, 1 meter

5028-565

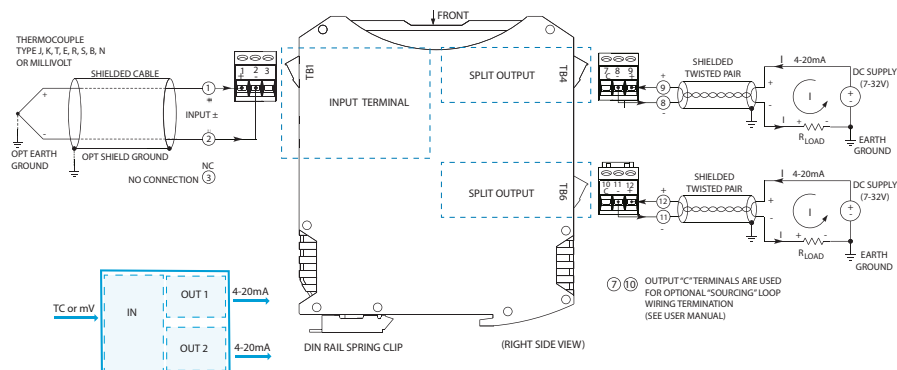
USB Cable, USB OTG Cable, 6 inches

Process Loop Splitter: SP230 Series

SP233 Thermocouple/millivolt input signal splitter, two-wire



**USB
Configured**



Universal thermocouple or $\pm 100\text{mV}$ input ♦ 4-20mA outputs (sink/source) ♦ 7-32V DC loop/local power

Description

The SP233 model is a high-performance signal splitter that converts one millivolt or thermocouple sensor input into two proportional isolated 4-20mA control signals. Power is received from one or both output loop currents.

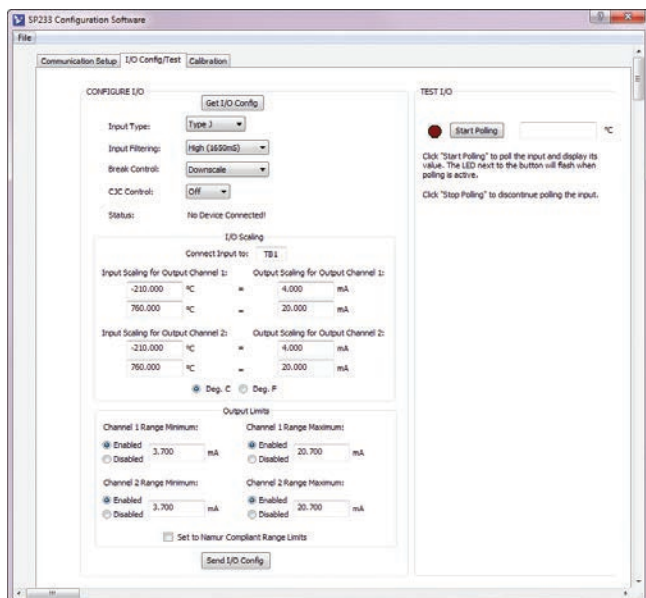
Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

High-voltage isolation separates the input and between the output circuits. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility app for Android
- Universal thermocouple or millivolt input (TC Type J, K, T, R, S, E, B, N or $\pm 100\text{mV}$)
- Input scales independently at each output
- User-selectable filtering (none, low, med, high)
- User-configurable output range clamp levels support NAMUR-compliant operation
- Supports reverse-acting (inverse) output
- Supports sink or source output wiring
- Very low 7V two-wire loop burden
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to 80°C)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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Process Loop Splitter: SP230

SP233 Thermocouple/millivolt input signal splitter, two-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP230 Series transmitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin.

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible.

USB Transient Protection

Transient voltage suppression on power and data lines.

USB Cable Length

5.0 meters maximum.

Driver

Not required. Uses built-in Human Interface Device (HID) USB drivers of the Windows operating system.

■ Input (Passive)

Default Configuration/Calibration

Input: TC J, -210 to 760°C, high filter, Break: up

Output: 4 to 20mA.

Input Ranges and Accuracy

Input	Range	Accuracy
TC J	-210 to 760°C (-346 to 1400°F)	±0.5°C
TC K	-200 to 1372°C (-328 to 2502°F)	±0.5°C
TC T	-260 to 400°C (-436 to 752°F)	±0.5°C
TC R	-50 to 1768°C (-58 to 3214°F)	±1.0°C
TC S	-50 to 1768°C (-58 to 3214°F)	±1.0°C
TC E	-200 to 1000°C (-328 to 1832°F)	±0.5°C
TC B	260 to 1820°C (500 to 3308°F)	±1.0°C
TC N	-230 to 1300°C (-382 to 2372°F)	±1.0°C
mV	-100 to 100mV	±0.1mV

Error includes the effects of repeatability, terminal point conformity, and linearization. Does not include CJC error.

Thermocouple Reference

(Cold Junction Compensation)

±0.2°C typical, ±0.5°C maximum at 25°C.

Ambient Temperature Effect

Better than ±80ppm/°C (±0.008%/°C).

Zero Scaling Adjust

0 to 95% of range, typical.

Full Scale Adjust

5 to 100% of full scale range, typical.

Lead Break (Sensor Burnout) Detection

Configurable for either upscale (24mA) or downscale (3.3mA) operation.

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS), 5.6V clamp level typical.

Resolution

Millivolt input: 0.0025% (1 part in 40,000)
Thermocouple input: 0.1°C.

Input Filter

Selectable digital filtering settings
(none, low, medium, high).

Input Filter Bandwidth

Normal mode plus digital filtering within the ADC.
Bandwidth (-3dB) varies with digital filter setting from 4Hz without filtering to 0.33Hz with high filtering.

Noise Rejection (Common Mode, High Filter)

138dB @ 60Hz, typical with 100 ohm input unbalance.

■ Output (Two Signals, Passive)

Output Range

4 to 20mA DC.

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 7V) / 0.020A$.

$R_{LOAD} = 0$ to 850 ohms @ 24V DC.

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filtering	21 milliseconds
Low filter	48 milliseconds
Medium filter	149 milliseconds
High filter	1138 milliseconds

■ Environmental

Operating temperature

-40 to 80°C (-40° to 176°F).

Storage temperature

-40 to 85°C (-40 to 185°F).

Relative humidity

5 to 95% non-condensing.

Power Requirement

7-32V DC SELV (Safety Extra Low Voltage), 24mA max.

Isolation

1500V AC peak. 250V AC (354V DC) continuous isolation between input and output circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64.

Shock: 25g, per IEC 60068-2-27.

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16.

RFI: BS EN 61000-6-2, IEC 61000-4-3.

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6.

ESD: BS EN 61000-6-2, IEC 61000-4-2.

EFT: BS EN 61000-6-2, IEC 61000-4-4.

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5.

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX/IECEx Zone 2.

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail.

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.

Dimensions

17.5 x 114.5 x 99.0 mm (0.69 x 4.51 x 3.90 inches).

Shipping Weight

0.22 kg (0.5 pounds) packed.

Ordering Information

Models

[SP233-0600](#)

Two-wire splitter, thermocouple/millivolt input.

Services

[SP230-Config/Cal](#)

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

[TTC-SIP](#) (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

[Agility Mobile Application](#)

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables.

Accessories

[USB-ISOLATOR](#)

USB-to-USB isolator, includes USB cable (4001-112).

[4001-112](#)

USB cable, 1 meter, with Type A to Type B plugs.

[4001-113](#)

USB cable, 1 meter, with Type A to Mini-B plugs.

[4001-252](#)

DIN rail end stop for hazloc approvals.

[5028-565](#)

USB-OTG 6 inch cable.

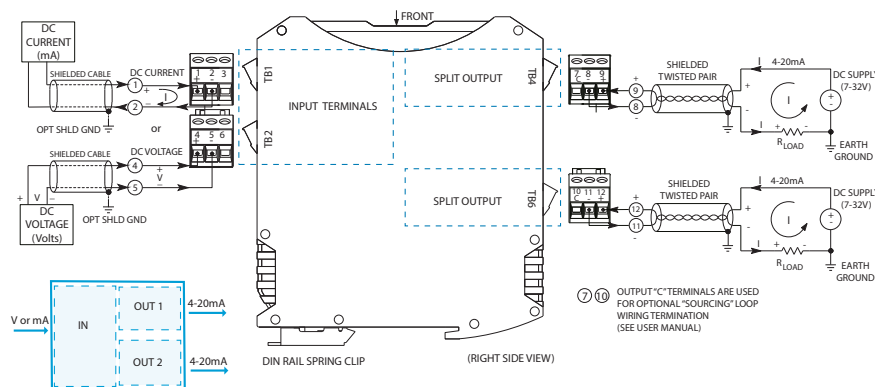
ISO9001
AS9100



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Process Loop Splitter: SP230 Series

SP236 Current/milliVolt input signal splitter, two-wire



DC current and low voltage input ♦ 4-20mA outputs (sink/source) ♦ 7-32V DC loop power

Description

The SP236 model is a high-performance signal splitter that converts one DC current or millivolt input into two isolated proportional 4-20mA control signals. Power is received from one or both output loop currents.

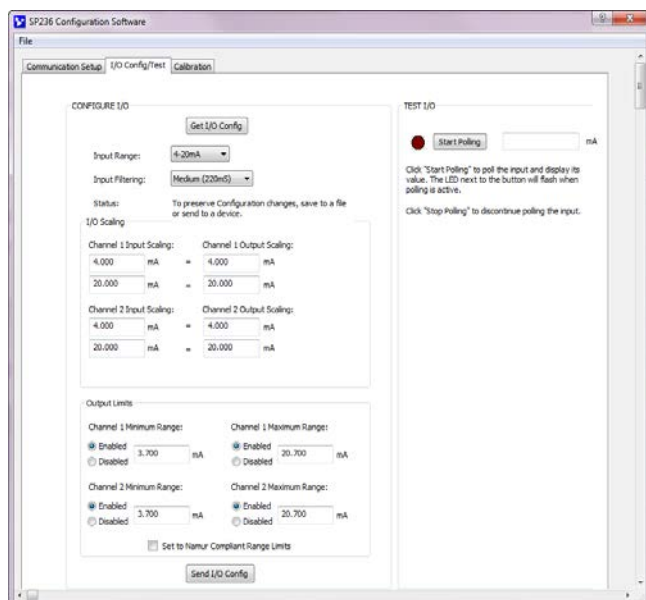
Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

High-voltage isolation separates the input from each output circuit. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility app for Android
- Single unit accepts input ranges up to $\pm 500\text{mV}$, $\pm 20\text{mA}$ DC, or 0-20A AC (with external sensor)
- Input scales independently at each output
- User-selectable filtering (none, low, med, high)
- User-configurable output range clamp levels support NAMUR-compliant operation
- Supports reverse-acting (inverse) output
- Supports sink or source output wiring
- Very low 7V two-wire loop burden
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to 80°C)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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Process Loop Splitter: SP230 Series

SP236 Current/millivolt input signal splitter, two-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP230 Series transmitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin.

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible.

USB Transient Protection

Transient voltage suppression on power and data lines.

USB Cable Length

5.0 meters maximum.

Driver

Not required. Uses built-in Human Interface Device (HID) USB drivers of the Windows operating system.

■ Input (Passive)

Default Configuration/Calibration

Input: 4 to 20mA, medium filter

Output: 4 to 20mA

Input Ranges and Accuracy

Range	Accuracy (typical)
±20mA	±0.05% of span
0 to 20mA	±0.05% of span
4 to 20mA	±0.05% of span
0 to 11.17mA (for AC sensor)	±0.05% of span
±1mA	±0.05% of span
±0.5V	±0.05% of span
0 to 500mV	±0.05% of span

Error includes the effects of repeatability, terminal point conformity, and linearization.

Ambient Temperature Effect

Better than ±80ppm/°C (±0.008%/°C)

Zero Scaling Adjust

0 to 95% of range, typical

Full Scale Adjust

5 to 100% of full scale range, typical

Input Impedance

Current input: 24.9 ohms

Voltage input: 15M ohms

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS),

5.6V clamp level typical.

Input Resolution

Bipolar input: 1 part in 50000 (±25000).

Unipolar input: 1 part in 25000.

Input Filter

Selectable digital filtering settings (none, low, medium, high).

Input Filter Bandwidth

Normal mode plus digital filtering within the ADC. Bandwidth (-3dB) varies with digital filter setting from 4Hz without filtering to 0.33Hz with high filtering.

Noise Rejection (Common Mode, High Filter)

138dB @ 60Hz, typical with 100 ohm input unbalance.

■ Output (Two Signals, Passive)

Output Range

Dual isolated 4 to 20mA DC.

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 7V) / 0.020A$.

$R_{LOAD} = 0$ to 850 ohms @ 24V DC.

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filter	17 milliseconds
Low filter	41 milliseconds
Medium filter	138 milliseconds
High filter	1142 milliseconds

■ Environmental

Operating temperature

-40 to 80°C (-40° to 176°F)

Storage temperature

-40 to 85°C (-40 to 185°F)

Relative humidity

5 to 95% non-condensing

Power Requirement

Loop powered, 7-32V DC SELV (Safety Extra Low Voltage),

24mA max

Isolation

1500V AC peak. 250V AC (354V DC) continuous isolation between input and output circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64

Shock: 25g, per IEC 60068-2-27

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail.

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.

Dimensions

17.5 x 114.5 x 99.0 mm (0.69 x 4.51 x 3.90 inches).

Shipping Weight

0.22 kg (0.5 pounds) packed.

Ordering Information

Models

[SP236-0600](#)

Two-wire splitter, current/millivolt input.

Services

[SP230-Config/Cal](#)

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

[TTC-SIP](#) (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

[Agility Mobile Application](#)

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

[USB-Isolator](#)

USB-to-USB isolator, includes USB cable (4001-112)

[4001-112](#)

USB cable, 1 meter, with Type A to Type B plugs

[4001-113](#)

USB cable, 1 meter, with Type A to Mini-B plugs

[4001-252](#)

DIN rail end stop for hazloc approvals

[5020-350](#)

AC current sensor (toroidal transformer); converts 0-20A AC to 0-11.17mA DC

[5028-565](#)

USB-OTG 6 inch cable

ISO9001
AS9100



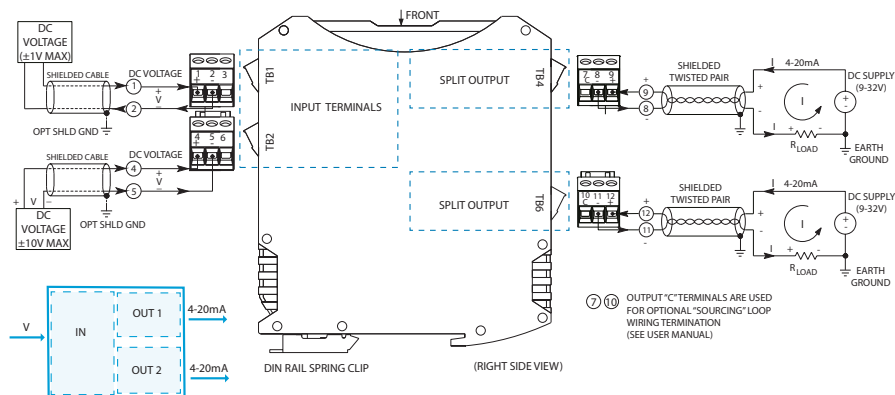
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THE LEADER IN INDUSTRIAL I/O

Process Loop Splitter: SP230 Series

SP237 Process voltage input signal splitter, two-wire



**USB
Configured**



Multi-range $\pm 1V$, $\pm 5V$, or $\pm 10V$ input 4-20mA outputs (sink/source) 7-32V DC loop power

Description

The SP237 model is a high-performance signal splitter that converts one process-level DC voltage input into two proportional isolated 4-20mA control signals. Power is received from one or both output loop currents.

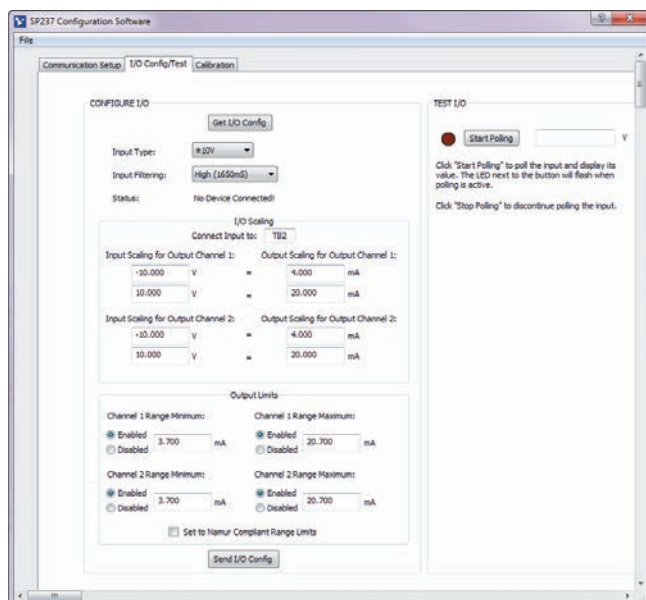
Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

High-voltage isolation separates the input and between the output circuits. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility app for Android
- Single unit accepts $\pm 1V$, $\pm 5V$, and $\pm 10V$ DC input ranges
- Input scales independently at each output
- User-selectable filtering (none, low, med, high)
- User-configurable output range clamp levels support NAMUR-compliant operation
- Supports reverse-acting (inverse) output
- Supports sink or source output wiring
- Very low 7V two-wire loop burden
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to $80^{\circ}C$)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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Process Loop Splitter: SP230 Series

SP237 Process voltage input signal splitter, two-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP230 Series transmitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible

USB Transient Protection

Transient voltage suppression on power and data lines.

USB Cable Length

5.0 meters maximum

Driver

Not required. Uses built-in Human Interface Device (HID) USB drivers of the Windows operating system.

■ Input

Default Configuration/Calibration

Input: $\pm 10\text{V DC}$, medium filtering.

Output: 4 to 20mA.

Input Ranges and Accuracy

Range	Accuracy (typical)
$\pm 1\text{V DC}$	$\pm 0.05\%$ of span
$\pm 5\text{V DC}$	$\pm 0.05\%$ of span
$\pm 10\text{V DC}$	$\pm 0.05\%$ of span

Error includes the effects of repeatability, terminal point conformity, and linearization.

Ambient Temperature Effect

Better than $\pm 80\text{ppm}/^\circ\text{C}$ ($\pm 0.008\%/^\circ\text{C}$)

Zero Scaling Adjust

0 to 95% of range, typical

Full Scale Adjust

5 to 100% of full scale range, typical

Input Impedance

$\pm 1\text{V}$ input: 15M ohms

$\pm 5\text{V}$ input: >1M ohms

$\pm 10\text{V}$ input: >1M ohms

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS), 14V working and 18V clamp level typical.

Input Resolution

Bipolar input: 1 part in 50000 (± 25000)

Unipolar input: 1 part in 25000

Input Filter

Selectable digital filtering settings (low, medium, high)

Input Filter Bandwidth

Normal mode plus digital filtering within the ADC. Bandwidth (-3dB) varies with digital filter setting from 4Hz without filtering to 0.33Hz with high filtering.

Noise Rejection (Common Mode, High Filter)

138dB @ 60Hz, typical with 100 ohm input unbalance.

■ Output

Output Range

4 to 20mA DC

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 11\text{V}) / 0.020\text{A}$.

$R_{LOAD} = 0$ to 850 ohms @ 24V DC.

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filter	13 milliseconds
Low filter	34 milliseconds
Medium filter	133 milliseconds
High filter	956 milliseconds

■ Environmental

Operating temperature

-40 to 80°C (-40° to 176°F)

Storage temperature

-40 to 85°C (-40 to 185°F)

Relative humidity

5 to 95% non-condensing

Power Requirement

7-32V DC SELV (Safety Extra Low Voltage), 24mA max.

Isolation

1500V AC peak. 250V AC (354V DC) continuous isolation between input and output circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64.

Shock: 25g, per IEC 60068-2-27

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail.

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.

Dimensions

17.5 x 114.5 x 99.0 mm (0.69 x 4.51 x 3.90 inches)

Shipping Weight

0.22 kg (0.5 pounds) packed

Ordering Information

Models

[SP237-0600](#)

Two-wire splitter, process voltage input

Services

[SP230-Config/Cal](#)

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

[TTC-SIP](#) (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

[Agility Mobile Application](#)

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

[USB-Isolator](#)

USB-to-USB isolator, includes USB cable (4001-112)

[4001-112](#)

USB cable, 1 meter, with Type A to Type B plugs

[4001-113](#)

USB cable, 1 meter, with Type A to Mini-B plugs

[4001-252](#)

DIN rail end stop for hazloc approvals

[5028-565](#)

USB-OTG 6 inch cable

ISO9001
AS9100



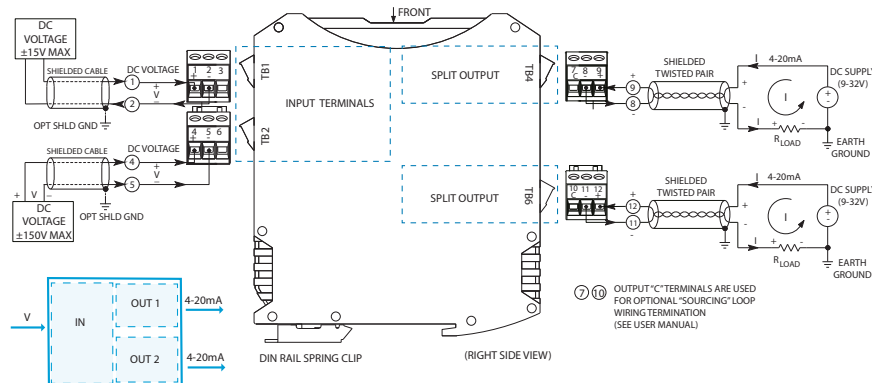
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THE LEADER IN INDUSTRIAL I/O

Process Loop Splitter: SP230 Series

SP238 High voltage input signal splitter, two-wire



**USB
Configured**



Multi-range $\pm 15V$, $\pm 75V$, or $\pm 150V$ input ◆ 4-20mA outputs (sink/source) ◆ 7-32V DC loop/local power

Description

The SP238 model is a high-performance signal splitter that converts one high-level DC voltage input into two proportional isolated 4-20mA control signals. power is received from one or both output loop currents.

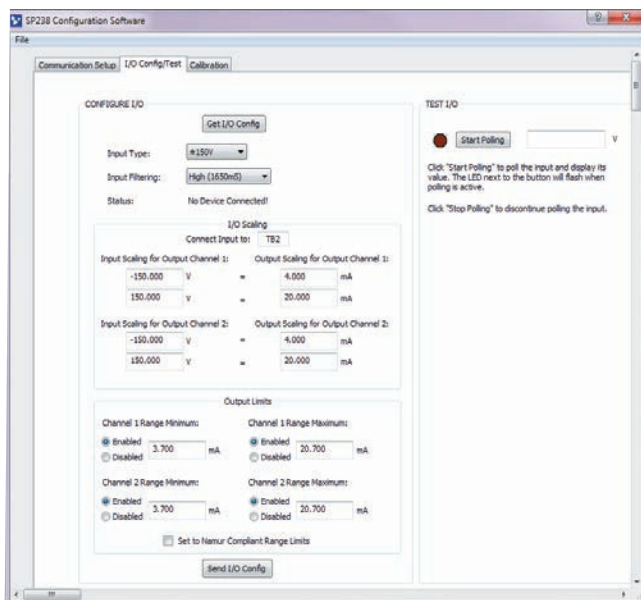
Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

High-voltage isolation separates the input and between the output circuits. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility app for Android
- Single unit accepts $\pm 15V$, $\pm 75V$, and $\pm 150V$ DC input ranges
- Input scales independently at each output
- User-selectable filtering (none, low, med, high)
- User-configurable output range clamp levels support NAMUR-compliant operation
- Supports reverse-acting (inverse) output
- Supports sink or source output wiring
- Very low 7V two-wire loop burden
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to $80^{\circ}C$)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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Process Loop Splitter: SP230

SP238 High voltage input signal splitter, two-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP230 Series transmitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin.

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible.

USB Transient Protection

Transient voltage suppression on power and data lines.

USB Cable Length

5.0 meters maximum.

Driver

Not required. Uses built-in Human Interface Device (HID) USB drivers of the Windows operating system.

■ Input (Passive)

Default Configuration/Calibration

Input: $\pm 150V$, medium filtering.

Output: 4 to 20mA.

Input Ranges and Accuracy

Range	Accuracy (typical)
$\pm 15V$ DC	$\pm 0.05\%$ of span
0-15V DC	$\pm 0.05\%$ of span
$\pm 150V$ / ± 75 DC	$\pm 0.05\%$ of span
0-150V	$\pm 0.05\%$ of span
0-5V DC	$\pm 0.05\%$ of span

Error includes the effects of repeatability, terminal point conformity, and linearization.

Ambient Temperature Effect

Better than $\pm 80\text{ppm}/^\circ\text{C}$ ($\pm 0.008\%/^\circ\text{C}$).

Zero Scaling Adjust

0 to 95% of range, typical.

Full Scale Adjust

5 to 100% of full scale range, typical.

Input Impedance

Greater than 1M ohms.

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS), 220V working typical.

Input Resolution

Bipolar input: 1 part in 50000 (± 25000).

Unipolar input: 1 part in 25000.

Input Filter

Selectable digital filtering settings (none, low, medium, high).

Input Filter Bandwidth

Normal mode plus digital filtering within the ADC. Bandwidth (-3dB) varies with digital filter setting from 4Hz without filtering to 0.33Hz with high filtering.

Noise Rejection (Common Mode, High Filter)

138dB @ 60Hz, typical with 100 ohm input unbalance.

■ Output (Two Signals, Passive)

Output Range

4 to 20mA DC.

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 7V) / 0.020A$.

$R_{LOAD} = 0$ to 850 ohms @ 24V DC.

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filter	88 milliseconds
Low filter	100 milliseconds
Medium filter	237 milliseconds
High filter	1762 milliseconds

■ Environmental

Operating temperature

-40 to 80°C (-40° to 176°F)

Storage temperature

-40 to 85°C (-40 to 185°F)

Relative humidity

5 to 95% non-condensing.

Power Requirement

7-32V DC SELV (Safety Extra Low Voltage), 24mA max.

Isolation

1500V AC peak. 250V AC (354V DC) continuous isolation between input and output circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64

Shock: 25g, per IEC 60068-2-27

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail.

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.

Dimensions

17.5 x 114.5 x 99.0 mm (0.69 x 4.51 x 3.90 inches).

Shipping Weight

0.22 kg (0.5 pounds) packed.

Ordering Information

Models

[SP238-0600](#)

Two-wire splitter, high voltage input.

Services

[SP230-Config/Cal](#)

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

[TTC-SIP](#) (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

[Agility Mobile Application](#)

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

[USB-Isolator](#)

USB-to-USB isolator, includes USB cable (4001-112)

[4001-112](#)

USB cable, 1 meter, with Type A to Type B plugs

[4001-113](#)

USB cable, 1 meter, with Type A to Mini-B plugs

[4001-252](#)

DIN rail end stop for hazloc approvals

[5028-565](#)

USB-OTG 6 inch cable

ISO9001
AS9100  MADE IN USA

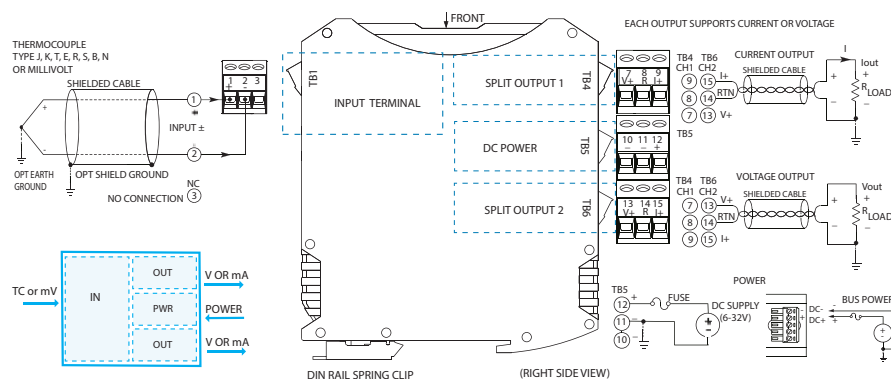
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Signal Splitter: SP330 Series

SP333 Thermocouple/millivolt splitter, four-wire



**USB
Configured**



Universal thermocouple or $\pm 100\text{mV}$ input ♦ 0-20mA, $\pm 10\text{V}$ or 0-10V outputs ♦ 6-32V DC external power

Description

The SP333 is a high-performance signal splitter that converts one millivolt or thermocouple input into two isolated proportional control signals. A variety of current and voltage output ranges are supported. Power connects on a terminal block, a rail bus, or both for redundancy.

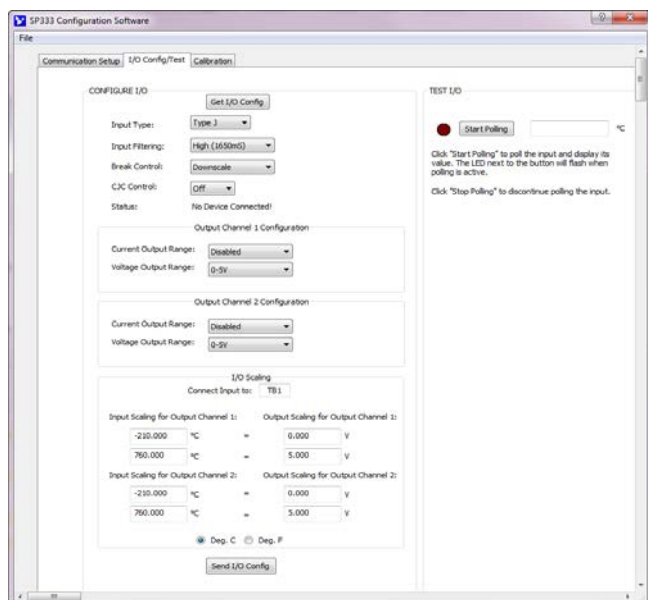
High-voltage isolation separates the input from power and each output circuit. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility app for Android
- Universal thermocouple or millivolt input (TC Type J, K, T, R, S, E, B, N or $\pm 100\text{mV}$)
- Input can scale differently for each output
- User-selectable filtering (none, low, med, high)
- Scalable current or voltage output ranges: 0-20mA, 4-20mA, $\pm 5\text{V}$, $\pm 10\text{V}$, 0-5V, 0-10V
- Normal or reverse-acting output
- Wide-range DC power input from 6-32V with support for rail power bus and redundancy
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to 75°C)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP333 Thermocouple/millivolt splitter, four-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP330 Series splitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin. 5.0 meters cable length max. No driver required uses Windows HID drivers.

Data Rate

12Mbps. USB v1.1 and 2.0 compatible

USB Transient Protection

Transient voltage suppression on power and data lines

■ Input (Passive)

Default Configuration/Calibration

Input: TC J, -210 to 760°C, med. filter, break: up.

Output: 4 to 20mA

Input Ranges and Accuracy

Input	Range	Accuracy
TC J	-210 to 760°C (-346 to 1400°F)	±0.5°C
TC K	-200 to 1372°C (-328 to 2502°F)	±0.5°C
TC T	-260 to 400°C (-436 to 752°F)	±0.5°C
TC R	-50 to 1768°C (-58 to 3214°F)	±1.0°C
TC S	-50 to 1768°C (-58 to 3214°F)	±1.0°C
TC E	-200 to 1000°C (-328 to 1832°F)	±0.5°C
TC B	260 to 1820°C (500 to 3308°F)	±1.0°C
TC N	-230 to 1300°C (-382 to 2372°F)	±1.0°C
mV	-100 to 100mV	±0.1mV

Error includes the effects of repeatability, terminal point conformity, and linearization (but not CJC error).

Thermocouple Reference

(Cold Junction Compensation)

±0.2°C typical, ±0.5°C maximum at 25°C

Ambient Temperature Effect

Better than ±80ppm/°C (±0.008%/°C)

Scaling Adjust

Zero: 0 to 95% of range, typical

Full scale: 5 to 100% of full scale range, typical

Lead Break (Sensor Burnout) Detection

Upscale/downscale ±5% full scale range typical

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS),

5.6V clamp level typical

Input Resolution

Millivolt input: 0.0025% (1 part in 40,000)

Thermocouple input: 0.1°C

Input Filter

Selectable digital filtering (none, low, med., and high)

Input Impedance

Current input: 24.9 ohms

Voltage input: 15M ohms

Noise Rejection (with high filter)

Normal mode @ 60Hz: >80dB

Common mode @ 60Hz: >134dB

■ Output (Two Signals, Active)

Output Range

Range	Over-Range	Resolution
±10V	±10.5V	1 part in 62415
±5V	±5.25V	1 part in 31208
0 to 10V	-0.5527 to +10.5V	1 part in 59240
0 to 5V	-0.27634 to +5.25V	1 part in 60262
0 to 20mA	-1.1054 to 21mA	1 part in 58596
4 to 20mA	-1.1054 to 21mA	1 part in 46877

Output Load

Voltage output: 1K ohms minimum

Current output: 0-550 ohms

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filter	14 milliseconds
Low filter	41 milliseconds
Medium filter	137 milliseconds
High filter	1141 milliseconds

Output Ripple

Less than ±0.1% of output span

■ Environmental

Operating Temperature

-40 to 75°C (-40° to 167°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Relative Humidity

5 to 95% non-condensing

Power Requirement

6-32V DC external supply, 1.5W max.

Isolation

1500V AC peak. 250V AC (354V DC) continuous between input, output, and power circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64

Shock: 25g, per IEC 60068-2-27

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail.

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.

Dimensions

17.5 x 114.5 x 99.0 mm (0.7 x 4.51 x 3.90 inches)

Shipping Weight

0.22 kg (0.5 pounds) packed

Ordering Information

Models

[SP333-0700](#)

Four-wire splitter, thermocouple/millivolt input

Services

[SP330-Config/Cal](#)

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

[TTC-SIP](#) (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

[Agility Mobile Application](#)

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

[TTBUS-KIT](#)

DIN rail bus power connector, left/right terminal blocks & two end stops #1027-222. One kit supports multiple splitters.

[USB-ISOLATOR](#)

USB-to-USB isolator, includes USB cable (4001-112)

[4001-112](#)

USB cable, 1 meter, with Type A to Type B plugs

[4001-113](#)

USB cable, 1 meter, with Type A to Mini-B plugs

[4001-252](#)

DIN rail end stop for hazloc approvals

[5028-565](#)

USB-OTG 6 inch cable

ISO9001
AS9100



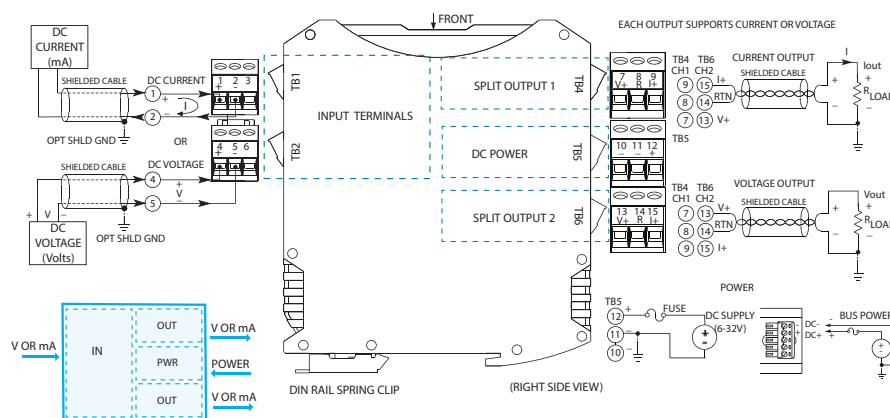
Acromag 
THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP336 Current/millivolt input signal splitter, four-wire



**USB
Configured**



DC current and low voltage input ♦ 0-20mA, $\pm 10V$ outputs ♦ 6-32V DC external power

Description

The SP336 is a high-performance signal splitter that converts one DC current or millivolt input into two isolated proportional control signals. A variety of current and voltage output ranges are supported. Power connects on a terminal block, a rail bus, or both for redundancy.

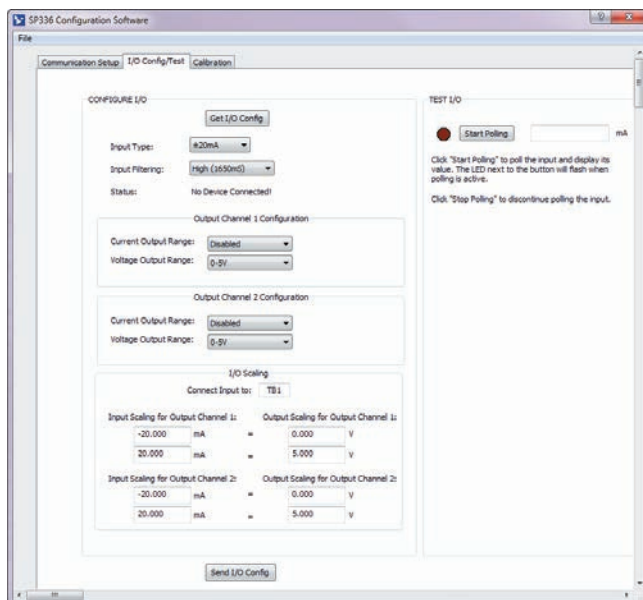
High-voltage isolation separates the input from power and each output circuit. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility™ app for Android
- Single unit accepts input ranges up to $\pm 500mV$, $\pm 20mA$ DC, or 0-20A AC (with external sensor)
- Input can scale differently for each output
- User-selectable filtering (none, low, med, high)
- Scalable current or voltage output ranges: 0-20mA, 4-20mA, $\pm 5V$, $\pm 10V$, 0-5V, 0-10V
- Normal or reverse-acting output
- Wide-range DC power input from 6-32V with support for rail power bus and redundancy
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to 75°C)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP336 Current/millivolt input signal splitter, four-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP330 Series splitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin. 5.0 meters cable length maximum. No driver required.

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible

USB Transient Protection

Transient voltage suppression on power and data lines

■ Input (Passive)

Default Configuration/Calibration

Input: 4 to 20mA, medium filter.

Output: 4 to 20mA.

Input Ranges and Accuracy

Range	Accuracy (typical)
±500mV	±0.05% of span
0 to 500mV	±0.05% of span
±20mA	±0.05% of span
0 to 20mA	±0.05% of span
4 to 20mA	±0.05% of span
0 to 11.17mA (for AC sensor)	±0.05% of span
±1mA	±0.05% of span

Error includes the effects of repeatability, terminal point conformity, and linearization.

Ambient Temperature Effect

Better than ±80ppm/°C (±0.008%/°C)

Scaling Adjust

Zero: 0 to 95% of range, typical

Full scale: 5 to 100% of range, typical

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS), 5.6V clamp level typical.

Input Resolution (normalized range)

Bipolar input: 1 part in 50000 (±25000)

Unipolar input: 1 part in 25000

Input Impedance

Current input: 24.9 ohms (TB1)

Voltage input: 15M ohms (TB2)

Input Filter

Selectable digital filtering (none, low, med., and high)

Noise Rejection (with high filter)

Normal mode @ 60Hz: >80dB

Common mode @ 60Hz: >139dB

■ Output (Two Signals, Active)

Output Range

Range	Over-Range	Resolution
±10V	±11V	1 part in 59577
±5V	±5.5V	1 part in 59577
0 to 10V	-0 to +11V	1 part in 59577
0 to 5V	-0 to +5.5V	1 part in 59577
0 to 20mA	0 to 24mA	1 part in 54612
4 to 20mA	0 to 24mA	1 part in 43689

Output Load

Voltage output: 1K ohms minimum

Current output: 0-525 ohms for 21mA

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)		
Filter	±0.5V Input Range	±20mA Input Range
None	28 milliseconds	10 milliseconds
Low	34 milliseconds	34 milliseconds
Medium	115 milliseconds	136 milliseconds
High	1060 milliseconds	1168 milliseconds

Output Ripple

Less than ±0.1% of output span

■ Environmental

Operating temperature

-40 to 75°C (-40° to 167°F)

Storage temperature

-40 to 85°C (-40 to 185°F)

Relative humidity

5 to 95% non-condensing

Power Requirement

6-32V DC external supply, 1.5W max

Isolation

1500V AC peak. 250V AC (354V DC) continuous between input, output, and power circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64

Shock: 25g, per IEC 60068-2-27

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire.

Dimensions

17.5 x 114.5 x 99.0 mm (0.7 x 4.51 x 3.90 inches)

Shipping Weight

0.22 kg (0.5 pounds) packed

Ordering Information

Models

SP336-0700

Four-wire signal splitter, current/millivolt input

Services

SP330-Config/Cal

Factory custom configuration/calibration service

Software

TTC-SIP (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

Agility Mobile Application

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

TTBUS-KIT

DIN rail bus power connector, left/right terminal blocks & two end stops #1027-222. One kit supports multiple splitters.

USB-ISOLATOR

USB-to-USB isolator, includes USB cable (4001-112)

4001-112

USB cable, 1 meter, with Type A to Type B plugs

4001-113

USB cable, 1 meter, with Type A to Mini-B plugs

4001-252

DIN rail end stop for hazloc approvals

5020-350

AC current sensor (toroidal transformer); converts 0-20A AC to 0-11.17mA DC

5028-565

USB-OTG 6 inch cable

ISO9001
AS9100



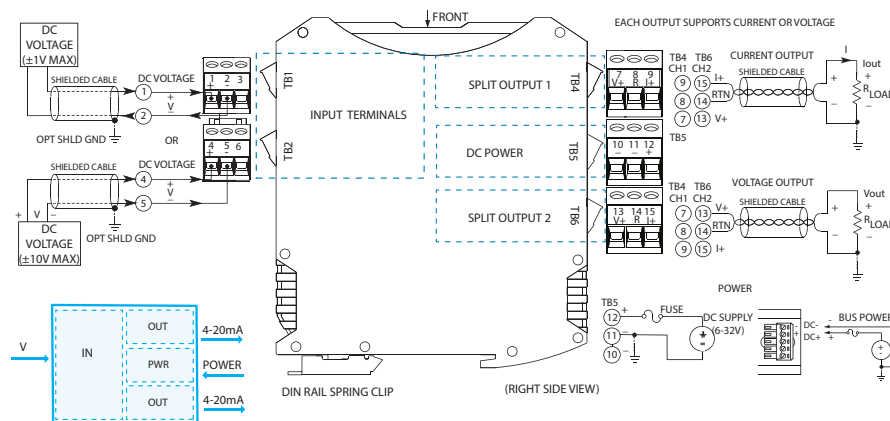
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THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP337 Process voltage input signal splitter, four-wire



**USB
Configured**



Multi-range $\pm 1V$, $\pm 5V$, or $\pm 10V$ input ◆ 0-20mA, $\pm 10V$ or 0-10V outputs ◆ 6-32V DC external power

Description

The SP337 is a high-performance signal splitter that converts one process-level DC voltage input into two isolated proportional control signals. A variety of current and voltage output ranges are supported. Power connects on a terminal block, a rail bus, or both for redundancy.

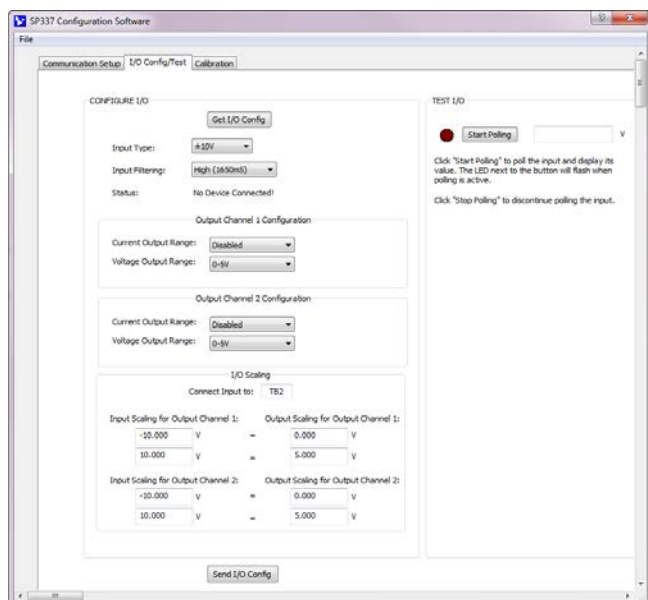
High-voltage isolation separates the input from power and each output circuit. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility app for Android
- Single unit accepts $\pm 1V$, $\pm 5V$, and $\pm 10V$ DC input ranges
- Input can scale differently for each output
- User-selectable filtering (none, low, med, high)
- Scalable current or voltage output ranges: 0-20mA, 4-20mA, $\pm 5V$, $\pm 10V$, 0-5V, 0-10V
- Normal or reverse-acting output
- Wide-range DC power input from 6-32V with support for rail power bus and redundancy
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to 75°C)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP337 Process voltage input signal splitter, four-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP330 Series splitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible

USB Transient Protection

Transient voltage suppression on power and data lines

USB Cable Length

5.0 meters maximum

Driver

Not required. Uses built-in Human Interface Device (HID) USB drivers of the Windows operating system.

■ Input (Passive)

Default Configuration/Calibration

Input: $\pm 10V$, medium filter

Output: 4 to 20mA

Input Ranges and Accuracy

Range	Accuracy (typical)
$\pm 1V$ DC	$\pm 0.05\%$ of span
$\pm 5V$ DC	$\pm 0.05\%$ of span
$\pm 10V$ DC	$\pm 0.05\%$ of span

Error includes the effects of repeatability, terminal point conformity, and linearization.

Ambient Temperature Effect

Better than $\pm 80\text{ppm}/^{\circ}\text{C}$ ($\pm 0.008\%/^{\circ}\text{C}$)

Zero Scaling Adjust

0 to 95% of range, typical

Full Scale Adjust

5 to 100% of full scale range, typical

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS), 14V working and 18V clamp level typical

Input Resolution

Bipolar input: 1 part in 50000 (± 25000)

Unipolar input: 1 part in 25000

Input Impedance

$\pm 1V$ input: 15M ohms (TB1)

$\pm 5V$ / $\pm 10V$ input: $>1M$ ohms (TB2)

Input Filter

Selectable digital filtering (none, low, med., and high)

Noise Rejection (with high filter)

Normal mode @ 60Hz: $>80\text{dB}$

Common mode @ 60Hz: $>133\text{dB}$

■ Output (Two Signals, Active)

Output Range

Range	Over-Range	Resolution
$\pm 10V$	$\pm 10.5V$	1 part in 62415
$\pm 5V$	$\pm 5V$	1 part in 31208
0 to 10V	-0.5527 to +10.5V	1 part in 59293
0 to 5V	-0.27634 to +5.25V	1 part in 59293
0 to 20mA	-1.1054 to 21mA	1 part in 59293
4 to 20mA	-1.1054 to 21mA	1 part in 47434

Output Load

Voltage output: 1K ohms minimum

Current output: 0-525 ohms for 21mA

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filter	11 milliseconds
Low filter	38 milliseconds
Medium filter	121 milliseconds
High filter	1050 milliseconds

Output Ripple

Less than $\pm 0.1\%$ of output span

■ Environmental

Operating Temperature

-40 to 75°C (-40° to 167°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Relative Humidity

5 to 95% non-condensing

Power Requirement

6-32V DC external supply, 1.5W max

Isolation

1500V AC peak. 250V AC (354V DC) continuous between input, output, and power circuits

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64

Shock: 25g, per IEC 60068-2-27

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire

Dimensions

17.5 x 114.5 x 99.0 mm (0.7 x 4.51 x 3.90 inches)

Shipping Weight

0.22 kg (0.5 pounds) packed

Ordering Information

Models

SP337-0700

Four-wire splitter, process voltage input

Services

SP330-Config/Cal

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

TTC-SIP (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

Agility Mobile Application

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

TBUSB-KIT

DIN rail bus power connector, left/right terminal blocks & two end stops #1027-222. One kit supports multiple splitters.

USB-ISOLATOR

USB-to-USB isolator, includes USB cable (4001-112)

4001-112

USB cable, 1 meter, with Type A to Type B plugs

4001-113

USB cable, 1 meter, with Type A to Mini-B plugs

4001-252

DIN rail end stop for hazloc approvals

5028-565

USB-OTG 6 inch cable

ISO9001
AS9100 
MADE IN USA

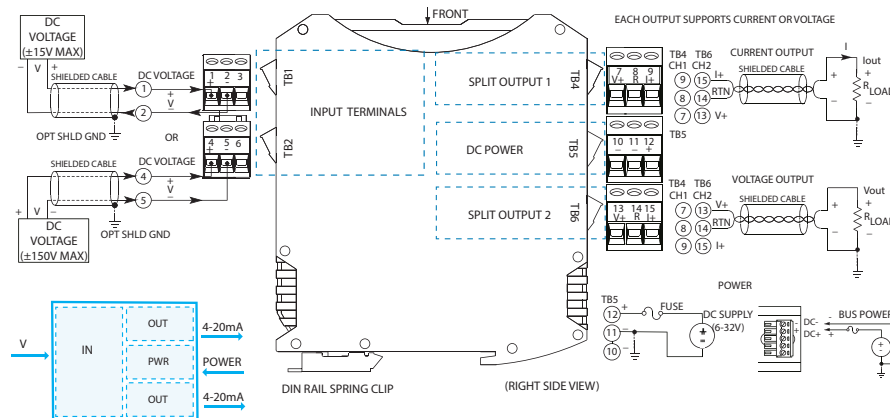
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THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP338 High voltage input signal splitter, four-wire



**USB
Configured**



Multi-range ± 15 , ± 75 , or ± 150 V input ◆ 0-20mA, ± 10 V or 0-10V outputs ◆ 6-32V DC external power

Description

The SP338 is a high-performance signal splitter that converts one high-level DC voltage input into two isolated proportional control signals. A variety of current and voltage output ranges are supported. Power connects on a terminal block, a rail bus, or both for redundancy.

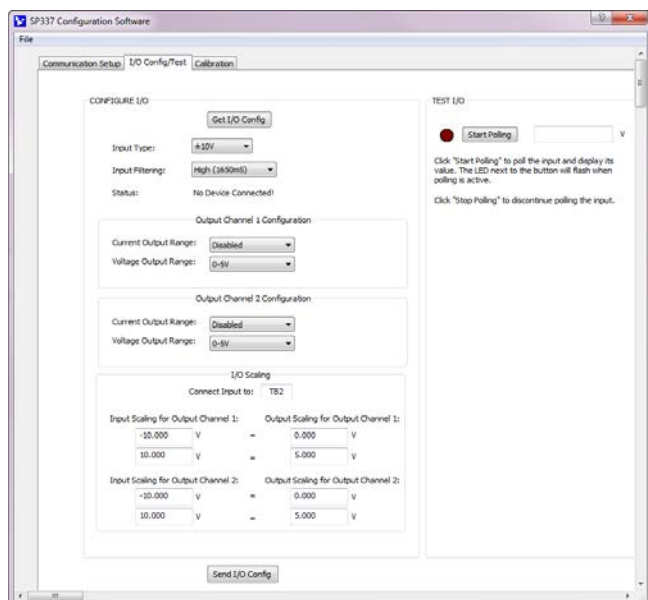
High-voltage isolation separates the input from power and each output circuit. The isolation protects from surges, reduces noise, and eliminates ground loop errors.

Setup is fast and easy with a USB connection to your PC and our Windows software. Acromag's Agility™ mobile app enables configuration on an Android smart phone or tablet. Software simplifies I/O range scaling, calibration, and advanced signal processing capabilities.

These rugged instruments withstand harsh industrial environments to operate reliably across a wide temperature range with very low drift. They feature high immunity to RFI, EMI, ESD, and EFT, plus low radiated emissions.

Key Features & Benefits

- Easy configuration via USB with Windows software or Agility™ app for Android
- Single unit accepts ± 15 V, ± 75 V, and ± 150 V DC input ranges
- Input can scale differently for each output
- User-selectable filtering (none, low, med, high)
- Scalable current or voltage output ranges: 0-20mA, 4-20mA, ± 5 V, ± 10 V, 0-5V, 0-10V
- Normal or reverse-acting output
- Wide-range DC power input from 6-32V with support for rail power bus and redundancy
- High accuracy, linearity, stability, and reliability
- 1500V isolation
- Space-saving 17.5mm (0.69 inch) design with pluggable terminals for easier wiring
- Shock (25g) and vibration (4g) resistant
- Wide ambient operation (-40 to 75°C)
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals.



Windows configuration software (FREE) at www.acromag.com

Android Agility™ app (FREE) at [Google Play Store](https://play.google.com/store/apps/details?id=com.acromag.agility)

Save configuration files for convenient copy/restore capability.

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THE LEADER IN INDUSTRIAL I/O

Signal Splitter: SP330 Series

SP338 High voltage input signal splitter, four-wire

Performance Specifications

IMPORTANT: To prevent ground loop error between a grounded PC and a grounded input signal, Acromag strongly recommends use of a USB isolator like Acromag's USB-Isolator when configuring a SP330 Series splitter.

■ USB Interface

USB Connector

USB Mini-B type socket, 5-pin

USB Data Rate

12Mbps. USB v1.1 and 2.0 compatible

USB Transient Protection

Transient voltage suppression on power and data lines

USB Cable Length

5.0 meters maximum

Driver

Not required. Uses built-in Human Interface Device (HID) USB drivers of the Windows operating system.

■ Input (Passive)

Default Configuration/Calibration

Input: $\pm 15V$, medium filter

Output: 4 to 20mA

Input Ranges and Accuracy

Range	Accuracy (typical)
$\pm 15V$ DC	$\pm 0.05\%$ of span
$\pm 75V$ DC	$\pm 0.05\%$ of span
$\pm 150V$ DC	$\pm 0.05\%$ of span

Error includes the effects of repeatability, terminal point conformity, and linearization.

Ambient Temperature Effect

Better than $\pm 80\text{ppm}/^\circ\text{C}$ ($\pm 0.008\%/^\circ\text{C}$)

Zero Scaling Adjust

0 to 95% of range, typical

Full Scale Adjust

5 to 100% of full scale range, typical

Input Over-Voltage Protection

Bipolar Transient Voltage Suppressors (TVS), 220V working typical.

Input Resolution

Bipolar input: 1 part in 50000 (± 25000)

Unipolar input: 1 part in 25000

Input Impedance

Greater than 1M ohms

Input Filter

Selectable digital filtering settings (none, low, medium, and high)

Noise Rejection (with high filter)

Normal mode @ 60Hz: $>80\text{dB}$

Common mode @ 60Hz: $>91\text{dB}$

■ Output (Two Signals, Active)

Output Range

Range	Over-Range	Resolution
$\pm 10V$	$\pm 10.5V$	1 part in 62415
± 5	$\pm 5V$	1 part in 31208
0 to 10V	-0.5527 to +10.5V	1 part in 59240
0 to 5V	-0.27634 to +5.25V	1 part in 60262
0 to 20mA	-1.1054 to 21mA	1 part in 58596
4 to 20mA	-1.1054 to 21mA	1 part in 46877

Output Load

Voltage output: 1K ohms minimum

Current output: 0-525 ohms for 21mA

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)

No filter	39 milliseconds
Low filter	59 milliseconds
Medium filter	158 milliseconds
High filter	1168 milliseconds

Output Ripple

Less than $\pm 0.1\%$ of output span

■ Environmental

Operating Temperature

-40 to 75°C (-40° to 167°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Relative Humidity

5 to 95% non-condensing

Power Requirement

6-32V DC external supply, 1.5W max

Isolation

1500V AC peak. 250V AC (354V DC) continuous between input, output, and power circuits.

Shock and Vibration Immunity

Vibration: 4g, per IEC 60068-2-64

Shock: 25g, per IEC 60068-2-27

Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2.

Electromagnetic Compatibility (EMC) Compliance

Radiated Emissions: BS EN 61000-6-4, CISPR 16

RFI: BS EN 61000-6-2, IEC 61000-4-3

Conducted RFI: BS EN 61000-6-2, IEC 61000-4-6

ESD: BS EN 61000-6-2, IEC 61000-4-2

EFT: BS EN 61000-6-2, IEC 61000-4-4

Surge Immunity: BS EN 61000-6-2, IEC 61000-4-5

■ Physical

General

General-purpose enclosure designed for mounting on 35mm "T-type" DIN rail

Case Material

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General-purpose NEMA Type 1 enclosure.

I/O Connectors

Removable plug-in terminal blocks rated for 12A/250V; AWG #26-12, stranded or solid copper wire

Dimensions

17.5 x 114.5 x 99.0 mm (0.7 x 4.51 x 3.90 inches)

Shipping Weight

0.22 kg (0.5 pounds) packed

Ordering Information

Models

[SP338-0700](#)

Four-wire splitter, high voltage input

Services

[SP330-Config/Cal](#)

Factory custom configuration/calibration service.

Specify input type, input/output zero and full-scale values, filtering, and sensor fault settings on order.

Software

[TTC-SIP](#) (recommend one kit per customer)

Windows Software Interface Package for Acromag SP Series signal splitters. Includes configuration software CD-ROM (5040-944), isolator (USB-ISOLATOR) and two USB cables (4001-112, 4001-113).

[Agility Mobile Application](#)

Software configuration software for an Android smart device. Download for free from the Google Play Store. Requires 5028-565 and 4001-113 cables

Accessories

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[USB-ISOLATOR](#)

USB-to-USB isolator, includes USB cable (4001-112)

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USB cable, 1 meter, with Type A to Type B plugs

[4001-113](#)

USB cable, 1 meter, with Type A to Mini-B plugs

[4001-252](#)

DIN rail end stop for hazloc approvals

[5028-565](#)

USB-OTG 6 inch cable

ISO9001
AS9100



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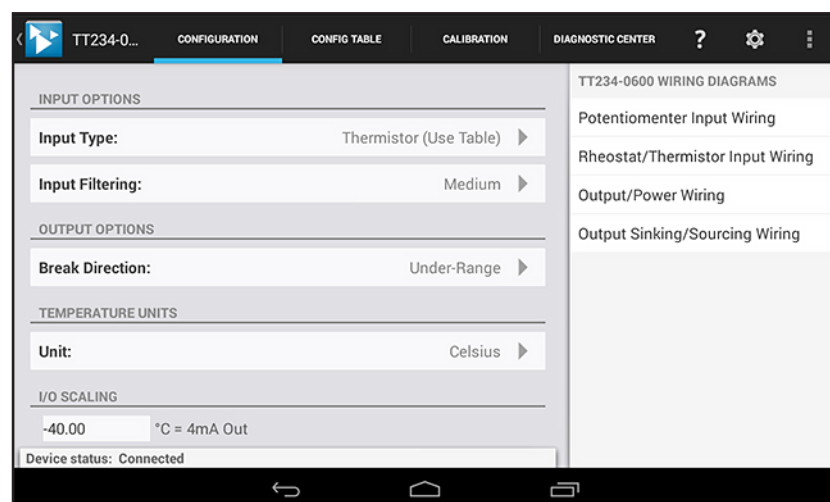
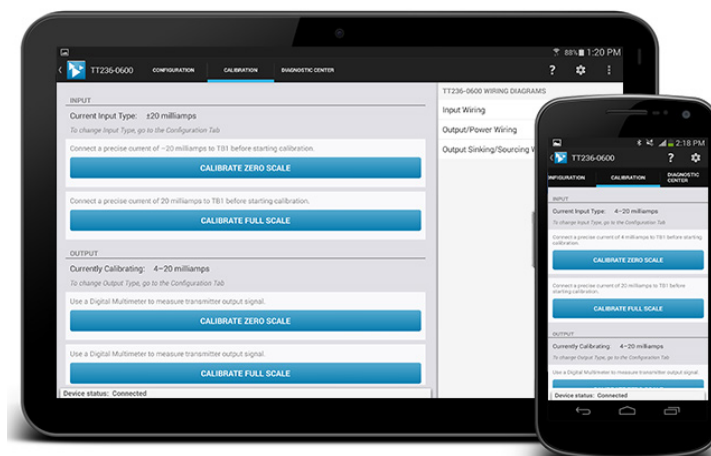
Software Support: Agility Config

Acromag Agility™ Config Tool Mobile Application

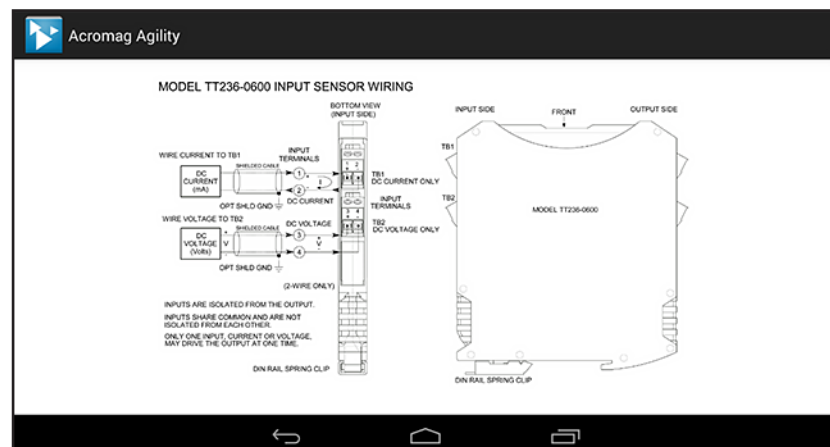
The Agility™ Config Tool is a mobile application that allows easy setup and configuration of Acromag DT and TT Series transmitters and SP Series signal splitters via a tethered mobile device.

This free app is available for Android devices at the Google Play store at [Acromag Agility™ Config Tool](#).

Demo the software, no need for a module.
To enter demo mode simply tap the  icon in the upper left corner 8 times.



With a couple of taps, quickly configure input, output, unit and scaling options.



Quick and easy access to the wiring diagram, even offline without internet access.

Key Features & Benefits

- Connects to Acromag DT and TT Series transmitters (except model TT231), and SP Series signal splitters.
- Requires the use of USB OTG Cable (Acromag part # 5028-565) and USB A to Mini B Cable (Acromag part # 4001-113)
- Configures and calibrates DT, TT, and SP Series products via phone or tablet running Android 4.3 ICS (Ice Cream Sandwich) or later.
- View wiring diagrams, even without an internet connection.
- Perform quick and easy field diagnostics and troubleshooting.
- Ideal for field technicians.



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