

Product Datasheet - Technical Specifications



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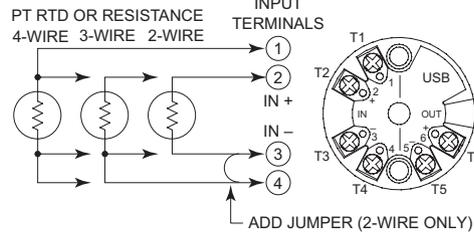


Transmitters: ST130 Series

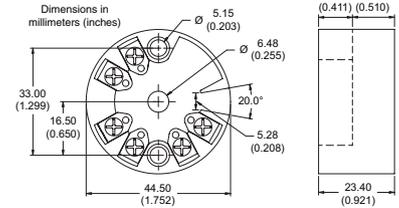
ST131 RTD input head-mount transmitter



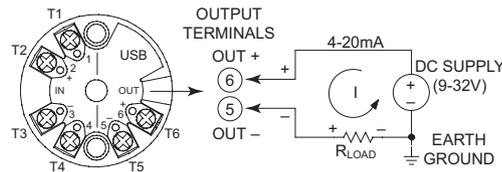
INPUT CONNECTIONS



DIMENSIONS



OUTPUT CONNECTIONS



100 ohm Pt RTD or 0-900 ohm input ◆ 4-20mA output ◆ Loop-powered, 9-32V DC

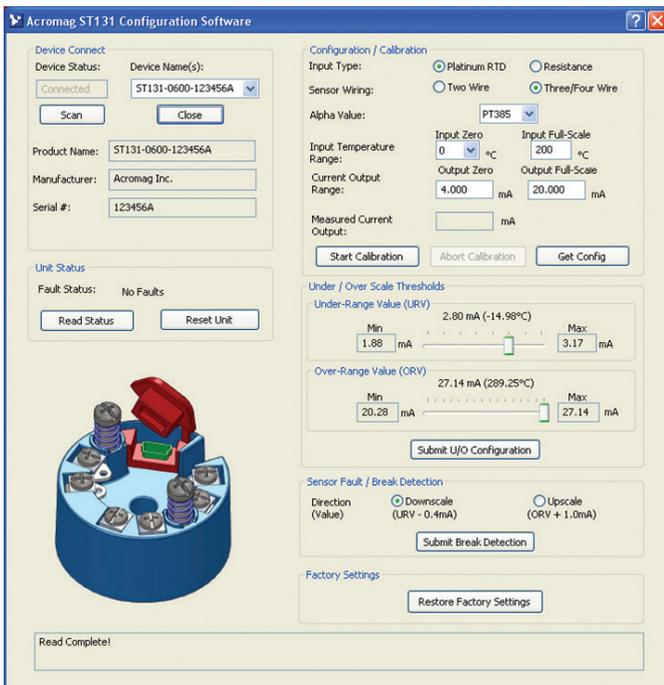
Description

The ST131 is a low-cost two-wire transmitter that converts a 100 ohm Platinum RTD sensor input to a proportional 4-20mA signal. Power is received from the output loop current. The transmitter provides sensor excitation and includes linearization, lead-wire compensation, and lead-break detection functions. Setup and calibration are fast and easy with a convenient USB connection to your PC and Acromag's Windows configuration software.

Advanced signal processing capabilities, variable range input, and convenient USB programming make this instrument a very versatile temperature transmitter for RTD and resistance elements. These transmitters are designed to withstand harsh industrial environments and operate reliably across a wide temperature range with very low drift. They feature RFI, EMI, ESD, EFT, and surge protection plus low radiated emissions.

Key Features & Benefits

- Easy setup and digital calibration via USB with Windows configuration software
- Flexible RTD or linear resistance input ranges
- Supports any 100 ohm Pt RTD (375-393 alpha)
- High accuracy and linearity
- Advanced analog signal conditioning ASIC eliminates digitization errors
- Low temperature drift
- Fast response time (< 500µs)
- Programmable over/under-range limits
- Selectable upscale or downscale operation for sensor errors and lead-break detection
- NAMUR NE43 compliant fault response
- Reverse polarity protected with non-polarized output
- Mounts in DIN Form B sensor heads
- Optional DIN rail adapter
- Wide ambient operation (-40 to 80°C)
- Hardened for harsh environments
- CE Compliant. UL/cUL Class 1 Div 2 Zone 2 approvals. ATEX Certified.



ST130 Series Transmitter Configuration Software is downloadable (FREE) from www.acromag.com.

Transmitters: ST130 Series

ST131 RTD input head-mount transmitter

Performance Specifications

IMPORTANT: To prevent damage or errors from grounded PCs and surges, Acromag strongly recommends use of the USB-ISOLATOR when configuring an ST130 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

Input Configuration

Two-, three- or four-wire sensor input connections.

Input Ranges

100 ohm Platinum RTD, alpha = 375-393, 385 (default), -50 to 900°C (-58 to 1652°F).

0 to 900 ohms linear resistance.

Programs in °C or ohmic integers only.

Zero Adjust

RTD 3/4 wire: -50, -17.78, or 0°C (-58, 0, 32°F).

RTD 2 wire: 0°C (32°F) fixed.

RES: 0 or 100 ohms.

Full-Scale Adjust

RTD: up to 900°C (1652°F), 50°C (58°F) span minimum.

Resistance: up to 900 ohms, 8 ohm span minimum.

Excitation Current

0.5mA, nominal.

Lead-Wire Compensation

25 ohms per lead.

Lead Break (Sensor Burnout) Detection

Configurable for either upscale or downscale.

■ Output

Output Range

4 to 20mA DC.

Under-scale limit adjustable for 2.1 to 3.6mA, nominal.

Over-scale limit adjustable for 21 to 30mA, nominal.

Output Fault Limits (Sensor Fault)

0.4mA below selected under-scale threshold and

1.0mA above over-scale threshold, typical.

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 9V) / 0.02A$.

$R_{LOAD} = 0$ to 750 ohms @ 24V DC.

Output Accuracy

Better than $\pm 0.1\%$ of span, typical for spans less than 500°C. Includes the effects of repeatability, terminal point conformity, and linearization, but does not include sensor error.

Ambient Temperature Effect

Better than $\pm 0.010\%$ per °C of input span or $\pm 80\text{ppm}/^\circ\text{C}$, typical. Includes the combined effects of zero and span drift over temperature.

Output Response Time

500 μs , typical with 250 ohm load.

■ 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

9-32V DC SELV (Safety Extra Low Voltage), 28mA max.

Isolation

Not isolated.

Shock and Vibration Immunity

Vibration: 5g, per IEC 60068-2-64.

Shock: 50g, per IEC 60068-2-27.

Radiated Emissions

BS EN 61000-6-4, CISPR 16.

Radiated Field Immunity (RFI)

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

Conducted RF Immunity (CRFI)

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

Electrostatic Discharge (ESD)

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

Electrical Fast Transient (EFT)

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

Surge Immunity

BS EN 61000-6-2, IEC 61000-4-5.

Approvals

CE compliant. UL/cUL listings. ATEX Certified.

Designed for Class I; Division 2; Groups ABCD; Zone 2.

Ⓢ II 3 G Ex nA IIC T4 Gc -40°C ≤ Ta ≤ +80°C

■ Physical

General

General purpose enclosure with potted circuit designed for mounting in DIN Form B connection heads.

DIN-Rail Mounting

Using optional ST130-DIN adapter, unit can mount to 35x15mm, T-type or G-type DIN rails.

Case Material

Self-extinguishing polycarbonate ABS plastic, UL94 V-0 rated base material. USB dust cap material is Santoprene, 251-70W232.

Printed Circuit Board

Military grade fire-retardant epoxy glass per IPC-4101/98 with humi-seal conformal coating.

I/O Connectors

Barrier strip type, captive screw terminals.

Wire range: AWG #14-28 solid or stranded.

Dimensions

Diameter = 44.5mm (1.752 inches),

Height = 23.4mm (0.921 inches).

Conforms to DIN 43 729 Form B size requirements.

Shipping Weight

0.5 pounds (0.22 Kg) packed.

Ordering Information

Models

ST131-0600

Transmitter, 100 ohm Pt RTD input, CE Compliant. Default calibration: Pt385 RTD, 3-wire, 0-200°C input, 4-20mA output, upscale fault detect.

ST131-0610

Same as ST131-0600 plus UL/cUL Class 1 Div 2 Zone 2 approval and ATEX Certified.

If mounting screws are required, order one ST130-MTG with each unit.

Services

ST13x-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

ST13C-SIP

Software Interface Package. Includes configuration software (ST130-CONFIG), isolator (USB-Isolator) and two USB cables (Part # 4001-112, 4001-113) for Acromag ST130 Series head-mount transmitters.

One (1) kit recommended per customer.

Accessories

Connection Head Enclosures

See Bulletin 8400-630 or www.acromag.com for info.

ST130-DIN

DIN-rail adapter.

ST130-MTG

Replacement mounting kit (screws and relief springs) for installing ST130 transmitter in a DIN Form B connection head.

USB-ISOLATOR

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

ISO9001
AS9100  MADE IN USA

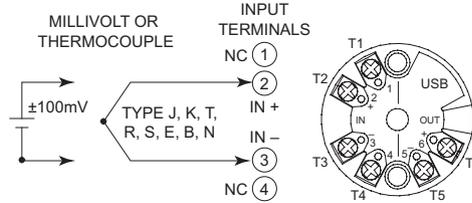
Acromag 
THE LEADER IN INDUSTRIAL I/O

Transmitters: ST130 Series

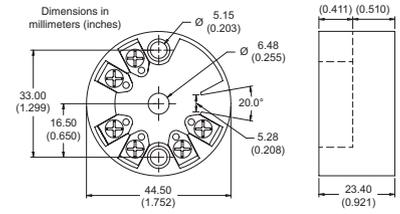
ST132 Thermocouple/millivolt input head-mount transmitter



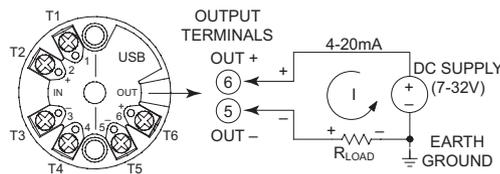
INPUT CONNECTIONS



DIMENSIONS



OUTPUT CONNECTIONS



Universal thermocouple (8 types) or $\pm 100\text{mV}$ input ◆ 4-20mA output ◆ Loop-powered, 7-32V DC

Description

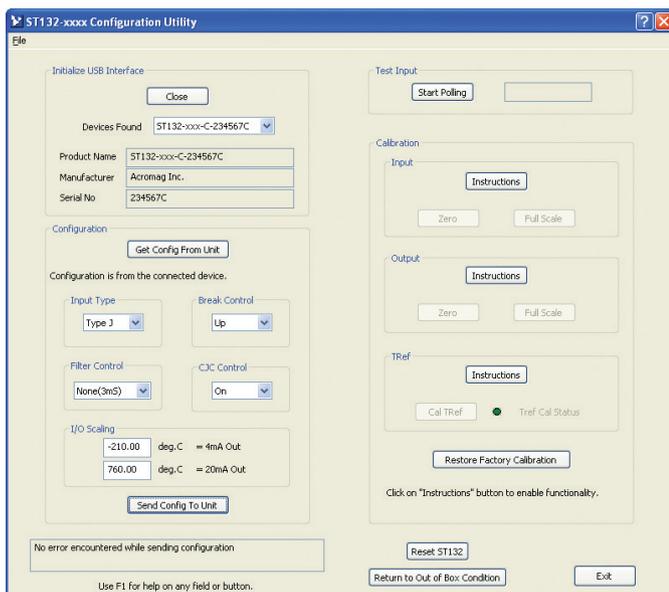
The ST132 is a low-cost two-wire transmitter that converts a millivolt or thermocouple sensor input to a proportional 4-20mA control signal. Power is received from the output loop current. The transmitter performs signal linearization, cold-junction compensation, and lead-break detection functions.

Setup and calibration are fast and easy with a convenient USB connection to your PC and Acromag's Windows configuration software.

Advanced signal processing capabilities, variable range input, and convenient USB programming make this instrument a very versatile temperature measurement device. These transmitters can withstand harsh industrial environments and operate reliably across a wide temperature range with very low drift. They feature RFI, EMI, ESD, EFT, and surge protection plus low radiated emissions.

Key Features & Benefits

- Easy setup and digital calibration via USB with Windows configuration software
- Flexible thermocouple or millivolt input ranges (TC Type J, K, T, R, S, E, B, N or $\pm 100\text{mV}$)
- 24-bit A/D microcontroller
- High accuracy, linearity, stability, and reliability
- Low temperature drift (<75ppm/°C)
- Fast response time (as low as 8ms)
- Supports reverse-acting (inverse) output
- Selectable upscale or downscale operation for sensor errors and lead-break detection
- Non-polarized output/power connection
- Mounts in DIN Form B sensor heads
- Shock (50g) and vibration (5g) resistant
- Optional DIN rail adapter
- Wide ambient operation (-40 to 80°C)
- Hardened for harsh environments
- CE compliant. UL/cUL Class 1 Div 2 Zone 2 approvals. ATEX Certified.



ST130 Series Transmitter Configuration Software is downloadable (FREE) from www.acromag.com.

ST132 software allows you to configure transmitters offline, save the file, and download settings into units later, at your convenience.



Transmitters: ST130 Series

ST132 Thermocouple input head-mount transmitter with USB-configuration

Performance Specifications

IMPORTANT: To prevent damage or errors from grounded PCs and surges, Acromag strongly recommends use of the USB-ISOLATOR when configuring an ST130 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: TC J, -17.78 to 60°C, upscale break, high filter.

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 at 25°C operating ambient temperature.

Thermocouple Reference

(Cold Junction Compensation)

±0.1°C typical, ±0.3°C maximum at 25°C.

Ambient Temperature Effect

Better than ±75ppm/°C (±0.0075%/°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 or downscale.

Thermocouple Input Bias Current

±250nA typical (TC break).

Input Over-Voltage Protection

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

Input Filter Bandwidth

-3dB at 55Hz, typical, normal mode filter.

Resolution

Millivolt input: 0.005% (1 part in 20,000)

Thermocouple input: 0.1°C.

Input Filter

Normal mode filtering, plus selectable digital filtering settings (none, low, medium, high) optimized and fixed per input range within the A/D converter.

Noise Rejection (Normal Mode)

75dB @ 60Hz, typical with 100 ohm input unbalance.

■ Output

Output Range

4 to 20mA DC.

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 7V) / 0.02A$.

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

Output Response Time (for step input change)

Time to reach 98% of final output value ranges from 8ms (with no filtering) to 800ms (with high filtering).

■ 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), 25mA max.

Isolation

Not isolated.

Shock and Vibration Immunity

Vibration: 5g, per IEC 60068-2-64.

Shock: 50g, 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. UL/cUL listings. ATEX Certified.

Designed for Class I; Division 2; Groups ABCD; Zone 2.

Ⓜ II 3 G Ex nA IIC T4 Gc -40°C ≤ Ta ≤ +80°C

■ Physical

General

General purpose enclosure with potted circuit designed for mounting in DIN Form B connection heads.

Case Material

Self-extinguishing polycarbonate ABS plastic, UL94 V-0 rated base material. USB dust cap material is Santoprene, 251-70W232.

I/O Connectors

Barrier strip type, captive screw terminals.

Wire range: AWG #14-28 solid or stranded.

Shipping Weight

0.5 pounds (0.22 Kg) packed.

Ordering Information

Models

ST132-0600

Transmitter, thermocouple/millivolt input, CE approval.

ST132-0610

Same as ST132-0600 plus UL/cUL Class 1 Division 2 Zone 2 approval and ATEX Certified.

If mounting screws are required, order one ST130-MTG with each unit.

Services

ST13x-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

ST13C-SIP (recommend one kit per customer)

Software Interface Package. Includes configuration software (ST130-CONFIG), isolator (USB-ISOLATOR) and two USB cables (Part # 4001-112, 4001-113) for Acromag ST130 Series head-mount transmitters.

Accessories

Connection Head Enclosures

See Bulletin 8400-630 or www.acromag.com for info.

ST130-DIN

DIN-rail adapter (Type G or T).

ST130-MTG

Replacement mounting kit (screws and relief springs) for installing ST130 transmitter in a DIN Form B connection head.

USB-ISOLATOR

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

ISO9001
AS9100 
MADE IN USA


THE LEADER IN INDUSTRIAL I/O

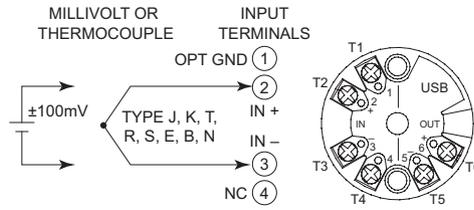


Transmitters: ST130 Series

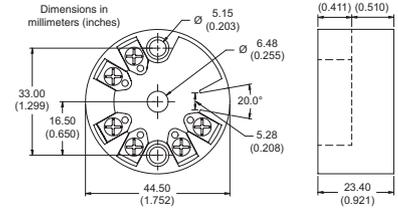
ST133 Isolated thermocouple/mV input head-mount transmitter



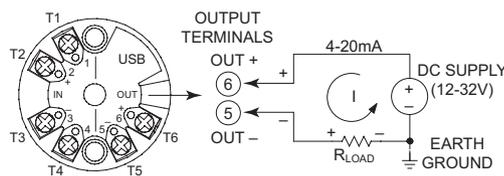
INPUT CONNECTIONS



DIMENSIONS



OUTPUT CONNECTIONS



Thermocouple (8 types) or ±100mV input ♦ 4-20mA output ♦ 1500V isolation ♦ Loop-powered

Description

The ST133 is a low-cost two-wire transmitter that isolates and converts a millivolt or thermocouple sensor input to a proportional 4-20mA control signal. Power is received from the output loop current. The transmitter performs signal linearization, cold-junction compensation, and lead-break detection functions.

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

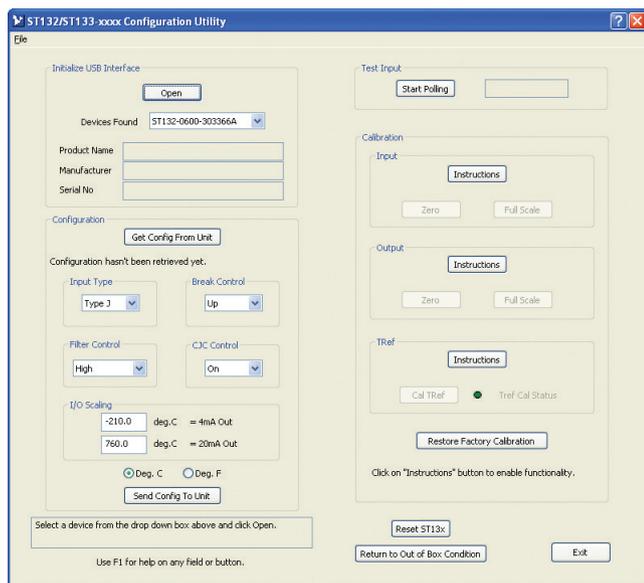
Setup and calibration are fast and easy with a convenient USB connection to your PC and Acromag's Windows configuration software.

Advanced signal processing capabilities, variable range input, and convenient USB programming make this instrument a very versatile temperature measurement device. These transmitters can withstand harsh industrial environments and operate reliably across a wide temperature range with very low drift. They feature RFI, EMI, ESD, EFT, and surge protection plus low radiated emissions.

Key Features & Benefits

- Easy setup and digital calibration via USB with Windows configuration software
- Flexible thermocouple or millivolt input ranges (TC Type J, K, T, R, S, E, B, N or ±100mV)
- 1500V input isolation
- 24-bit A/D microcontroller
- High accuracy, linearity, stability, and reliability
- Low temperature drift (<75ppm/°C)
- User selectable filtering (none, low, med. high)
- Fast response time (as low as 90ms)
- Supports reverse-acting (inverse) output
- Selectable upscale or downscale operation for sensor errors and lead-break detection
- Non-polarized output/power connection
- Mounts in DIN Form B sensor heads
- Shock (50g) and vibration (5g) resistant
- Optional DIN rail adapter
- Wide ambient operation (-40 to 80°C)
- Hardened for harsh environments
- CE compliant. UL/cUL Class 1 Div 2 Zone 2 approvals. ATEX Certified.

ST130 Series Transmitter Configuration Software is downloadable (FREE) from www.acromag.com.



ST133 software allows you to configure transmitters offline, save the file, and download settings into units later, at your convenience.



Transmitters: ST130 Series

ST133 Isolated thermocouple input head-mount transmitter with USB-configuration

Performance Specifications

IMPORTANT: To prevent damage or errors from grounded PCs and surges, Acromag strongly recommends use of the USB-ISOLATOR when configuring an ST130 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: TC J, -210 to 760°C, upscale fault, high filter.

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 at 25°C operating ambient temperature.

Thermocouple Reference

(Cold Junction Compensation)

±0.1°C typical, ±0.3°C maximum at 25°C.

Ambient Temperature Effect

Better than ±75ppm/°C (±0.0075%/°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.

Thermocouple Input Bias Current

±250nA typical (TC break).

Input Over-Voltage Protection

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

Resolution

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

Thermocouple input: 0.1°C.

Input Filter

Normal mode filtering, plus selectable digital filtering settings (none, low, medium, high) optimized and fixed per input range within the A/D converter.

Noise Rejection (Normal Mode)

75dB @ 60Hz, typical with 100 ohm input unbalance.

■ Output

Output Range

4 to 20mA DC.

Output Compliance

$R_{LOAD} = (V_{SUPPLY} - 12V) / 0.024A$.

$R_{LOAD} = 0$ to 500 ohms @ 24V DC.

Output Response Time (for step input change)

Time to reach 98% of final output value (typical)	
No filtering	90 to 125ms
Low filter	240 to 420ms
Medium filter	550 to 1020ms
High filter	900 to 1500ms

■ 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

12-32V 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: 5g, per IEC 60068-2-64.

Shock: 50g, 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. UL/cUL listings. ATEX Certified.

Designed for Class I; Division 2; Groups ABCD; Zone 2.

Ⓜ II 3 G Ex nA IIC T4 Gc -40°C ≤ Ta ≤ +80°C

■ Physical

General

General purpose enclosure with potted circuit designed for mounting in DIN Form B connection heads.

Case Material

Self-extinguishing polycarbonate ABS plastic, UL94

V-0 rated base material. USB dust cap material is

Santoprene, 251-70W232.

I/O Connectors

Barrier strip type, captive screw terminals.

Wire range: AWG #14-28 solid or stranded.

Shipping Weight

0.5 pounds (0.22 Kg) packed.

Ordering Information

Models

ST133-1600

Transmitter, thermocouple/millivolt input, CE approval.

ST133-1610

Same as ST133-1600 plus UL/cUL Class 1 Division 2 Zone 2 approval and ATEX Certified.

If mounting screws are required, order one ST130-MTG with each unit.

Services

ST13x-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

ST13C-SIP (recommend one kit per customer)

Software Interface Package. Includes configuration software (ST130-CONFIG), isolator (USB-ISOLATOR) and two USB cables (Part # 4001-112, 4001-113) for Acromag ST130 Series head-mount transmitters.

Accessories

Connection Head Enclosures

See Bulletin 8400-630 or www.acromag.com for info.

ST130-DIN

DIN-rail adapter (Type G or T).

USB-ISOLATOR

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





Transmitters: ST130 Series

Mounting Accessories Enclosures, adapters, mounting kits



4001-115K Aluminum Explosion-Proof, NEMA-4 rated



4001-116K Stainless Steel Explosion-Proof, NEMA-4X rated



4001-117K Aluminum General-Purpose, NEMA-4X rated



4001-119K Cast Iron General-Purpose, NEMA-4X rated

Simplifies mounting of ST130 Series transmitters ♦ Ideal for mounting in the field or in a control room

Description

For your convenience, Acromag offers a variety of head-mount enclosures and other mounting accessories to simplify your system installation.

Ordering Information

NOTE: For more information visit www.acromag.com.

Mounting Accessories

ST130-MTG

Replacement mounting Kit – Includes two (2) M4 mounting screws, (2) 6-32 mounting screws, and (2) two relief springs for mounting an ST130 transmitter in a DIN Form B connection head.

4001-115K

Explosion-Proof Aluminum Connection Head – FM/FMC, Class I, Division 1, Groups A, B, C, D, T6; Class II, III, Division 1, Groups E, F, G, T6; NEMA 4 rated. Includes M4 mounting screws and springs.

4001-116K

Explosion-Proof Stainless Steel Connection Head – FM/FMC, Class I, Division 1, Groups A, B, C, D, T6; Class II, Division 1, Groups E, F, G, T6; Class III, NEMA 4X rated. Includes M4 mtg screws and springs.

4001-117K

General-Purpose Aluminum Connection Head – NEMA 4X and IP68 rated. Includes M4 mounting screws and springs.

4001-119K

General-Purpose Cast Iron Connection Head – NEMA 4X rated. Includes M4 mtg screws and springs.

ST130-DIN

Series ST DIN Rail Adapter – Includes a DIN rail bracket with mounting screws that connects a ST130 transmitter to a 35mm T-type or G-type DIN rail. Includes M4 mounting screws and springs.



ST130-MTG Mounting Kit

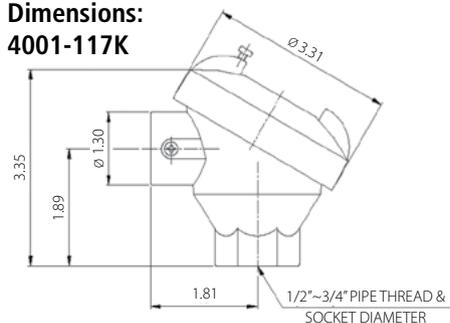
Required to mount ST130 transmitter in connection head enclosure.



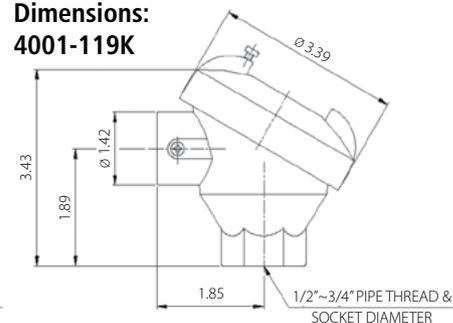
ST130-DIN DIN-rail Adapter

Includes ST130-MTG

Dimensions: 4001-117K



Dimensions: 4001-119K



Dimensions: 4001-115K and 4001-116K

