Product Datasheet - Technical Specifications

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Cable tester PROFtest II XL

Function

PROFtest II XL is a handy and easy-to-handle tool for checking the correct cabling in PROFIBUS networks with RS-485 transmission technique. By using PROFtest II, you will have a quick and simple overview on the actual wiring state either when starting up the system or carrying out a maintenance job. Measurements are normally performed off-line, i.e. without using the PLC/PROFIBUS master. So PROFtest II is looped through either at the start ot the end of the line (see fig.2). This step is easy to handle and menu driven. To operate PROFtest II, you need not require any special expertise. The most frequently used menu point is the sheer line test. The measurement is carried out in three steps as follows:

- Test without a termination
- Test with one termination
- Test with two terminations

The error is directly displayed with the line length pinpointed in meters measured from the measuring position. The detected data is represented in a measuring record which can be stored in the device or read out by a PC terminal program (see fig. 3). When using PROFtest II XXL version, a master function has been integrated, where as PROFtest II XXL-Online features an additional XXL-online function.

Technical data

- Applicable for PROFIBUS using RS-485 transmission technique
- Baud rate: 9,6 kbps to 12 Mbps
- Power supply according to either supplied accumulators or power pack
- Dimensions (L x W x H): 230 x 98 x 53 mm

Measuring results - Fault messages

- Display of actually laid line length
- Baud rate scan
- Line impedance measurement
- Correct termination
- Line interruption
- Shield interruption
- Mixed-up lines A-B
- Short circuit line A-B
- Short of line A/B - shield
- Using wrong line types
- Determining reflections
- Non-admissible spur line lengths
- List of all devices accessible at bus
- Transmission/Receiving level

Scope of delivery

- Plastic transport case
- PROFtest II XL
- Adapter for mains operation plus two rechargeable batteries
- Serval adaptors for PROFIBUS connection
- PROFtest II XL Manual

Ordering details	Art. No.
PROFtest II XL – Basic device	110010005
Extension DP master function	110010007
Extension online function	110010008
Extension DP master and online function	110010006

PROFtest II XL

Measurement

Analysis result for test without termination
No error !

Irregulary A <-> B not determinable
Irregulary A <-> shield not determinable
Irregulary B <-> shield not determinable
Breakout or inpedance change not determinable
Cable break not determinable
Cable OK
Impedance approx. 145 ohm
Cable length approx. 159 m

Measurement report

Cable test – Duty for every constructor

PROFtest II is the ideal measurement tool for commissioning, maintenance and service.

PROFtest II is a simply and handy tool for verification of correct wiring in PROFIBUS networks with RS 485 technology.

PROFtest II is characterized by simple handling and a significant plain text on display.

The **PROFtest II** cable test is basically taken in offline mode and shows avoidable weak spots accurate to the meter on the integrated display.

Test criteria

During testing the following examinations will be executed:

- Display of actually laid cable length
- Measuring of the cable impedance
- Correct termination
- Cable interrrupts
- Shielding interruptions

- Mixed up cables A-B
- Short-cicuit cables A-B
- Connection of cables A/B with shield
- Using of wrong cable types
- Detecting of reflexions

Ordering details	Art. No.
PROFtest II XL (standard)	110010005
PROFtest II XXL (online function)	110010008
PROFtest II XXL (master function)	110010007
PROFtest II XXL (extended master and online function)	110010006

PROFtest II XL measuring adapter/connecting cable

Function

The **PROFtest II measuring adapter K348 / K349 / K415 and K486** is used for the connection of the measuring devices PROFtest II and PROFview XL to the PROFIBUS.
With the measuring adapter the 5 V come from a device.

Electrical parameters

- Baud rate: 9,6 kBps to 12 MBps
- Rated voltage: 24 VDC

Ambient conditions

- Temperature range: -20 °C to +40 °C
- Protective system: IP20

Pin assignment

- Pin 1: not assigned
- Pin 2: not assigned
- Pin 3: B-Line (red)
- Pin 4: not assigned
- Pin 5: GND
- Pin 6: 5V
- Pin 7: not assigned
- Pin 8: A-Line (green)
- Pin 9: not assigned

PROFtest II measuring adapter K348

PROFtest II measuring adapter K349

PROFtest II connecting cable K415

PROFtest II measuring adapter K486

Ordering details	Art. No.
PROFtest II measuring adapter K348 Y-Cable	**110020006**
PROFtest II measuring adapter K349 Cable	**110020005**
PROFtest II connecting cable K415	**110020008**
PROFtest II measuring adapter K486 spur line	**110020007**