Programming unit For temperature transmitter and resistance thermometer Model PU-448

WIKA data sheet AC 80.16

Applications

For easy configuration of:

- Temperature transmitters, models T12, T24
- Resistance thermometers, models TR21, TR30, TR31

Special features

- Easy to use
- LED status/diagnostic displays
- Compact design
- Now no further power supply is needed for either the programming unit or for the transmitter
- Measuring the loop current via model T24 transmitter and the TR21, TR30 and TR31 resistance thermometers



Programming unit model PU-448 with magWIK

Description

This programming unit has been designed for general use in the production facilities of electronic temperature probe and sensor manufacturers. With this adapter, model T24 and T12 temperature transmitters, and the TR21, TR30 and TR31 series resistance thermometers, can be quickly and easily configured.

The programming unit provides a detailed status/diagnostic display and checks, for each contact, the connection between PC and programming unit as well as the connection between the programming unit and the transmitter.

Coloured LEDs indicate to the operator the current status of the connection. This ensures that faulty connections are reported immediately. Through the colour display, errors are very easily pinpointed.

The programming unit needs no additional power supply. The required voltage is taken entirely from the USB interface.

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Together with the WIKA_TT or WIKA_T12 configuration software a very useful tool has therefore been created, with which one can very easily configure temperature transmitters and resistance thermometers.

By using a model PU-448 programming unit with model T24 temperature transmitters or model TR21, TR30 or TR31 resistance thermometers, the loop current can also be measured.

The electrical connection of the terminals for the configuration of the head-mounted temperature transmitter version is achieved using the patented magWIK quick connector.

For the connection to model TR21, TR30 and TR31 resistance thermometers, corresponding coupler connectors are available.

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Resistance thermometer, miniature design model TR31; see data sheet TE 60.31

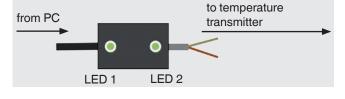


| Specifications | Programming unit model PU-448 | |
|-------------------------------|--|--|
| Software | | |
| Operating system | Windows 98, 2000, XP | |
| USB interface | USB connector Type A to 9-pin Sub D connector | |
| Electrical parameters | | |
| Power supply | The PU-448 and therefore also the connected transmitter/resistance thermometer are powered through the USB port. Thus no additional power supply is needed. | |
| Current consumption | 100 mA @ +5 V, via USB port | |
| Connection to computer | USB connector | |
| Connection to transmitter | anection to transmitter 2 x Ø 2 mm banana plugs (with magWIK quick connector) Adapter cable for M12 connector Adapter cable for angular DIN connector, Form A | |
| Output voltage | Max. 18 V | |
| Ambient conditions | | |
| Operating temperature 0 50 °C | | |
| Storage Temperature | -40 +85 °C | |
| Humidity | 095 % relative humidity | |
| Dimensions | | |
| Case | 75 x 33.3 x 15 mm, ABS industrial case | |
| Test clip cable | 2 m (2-wire) | |

LED diagnostics

The model PU-448 programming unit is fitted with 2 LEDs for clear status indication. Through changes in colour, detailed status diagnostics are possible.

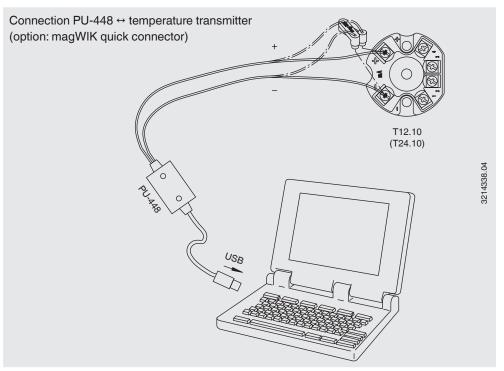
For further information on the LED diagnostics, see the operating instructions.



Connecting PU-448 programming unit

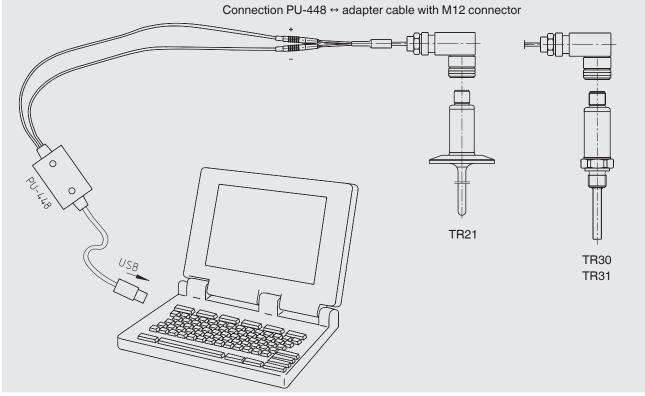
magWIK quick connector

(models T12, T24 temperature transmitters)



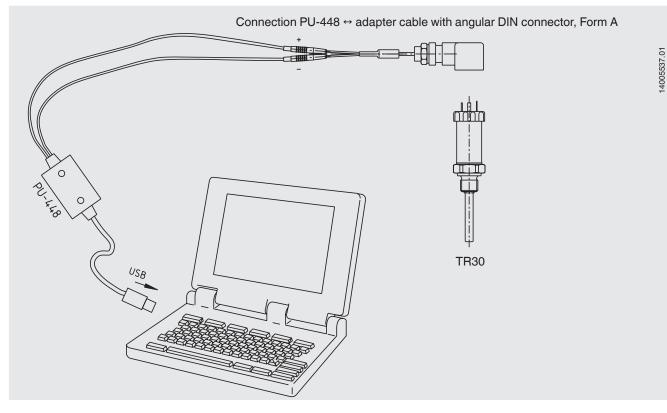
Adapter cable for M12 connector

(models TR21, TR30 and TR31 resistance thermometers)



Adapter cable for angular DIN connector, Form A





| Products | Order No. |
|---|--|
| Programming unit PU-448 | 11606304 |
| magWIK quick connector | 11604328 |
| Adapter cable for M12 connector | 14003193 |
| Adapter cable for angular DIN connector, Form A | 14005324 |
| WIKA_TT software | Free download from www.wika.com/Download Configuration of models T24, TR21, TR30 and TR31 |
| WIKA_T12 software | Free download from www.wika.com/Download Configuration of model T12 |

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