



Multifunctional transducer MFU 12/14



Benefits

- Universal input (current, voltage, resistance)
- Integrated supply voltage for 2/3-wire transmitter
- 2 analogue outputs
- 2 or 4 additional contact outputs
- Programming interface
- Universal power supply unit

Application

The digital multi-purpose transducers are freely programmable digital transducers with two analogue outputs and up to 4 relays.

Versions

	Part no.
Transducer MFU 12 2 voltage-free changeover contacts	53722
Transducer MFU 14 4 voltage-free changeover contacts	53723
Software MFU 03-S with interface cable and USB adapter	53724

Blue part no. = in-stock items

Description

Current up to 20 mA (also bipolar), voltage up to 10 V (also bipolar) or a three-wire technology potentiometer are possible input signals. In addition, a supply for 2-wire or 3-wire transmitters is integrated. The inputs are galvanically isolated from the voltage and the outputs. The two analogue outputs can be used simultaneously.



Technical specifications

Display

Multi-line LCD,
42 x 64 pixels,
Multicolour backlight,
Backlight can be switched off

Range

0 to 9,999 digits,
Start and end values configurable as required,
Free scaling unit,
3 languages (German, English, French)

Accuracy

± 0.2 % of maximum value

Resolution

Inputs: 13 Bit
Outputs: 10 Bit

Inputs

Current: Max. -20.4/+20.4 mA, adjustable as required
Voltage: Max. -10.2/+10.2 V, adjustable as required
Potentiometer: 0.1/100 kOhm, adjustable as required
Transmitter supply: DC 19.5 – 24.5 V

Analogue output 1 (current)

Max. 0/4–20.4 mA, adjustable as required
Galvanically isolated from input

Analogue output 2 (voltage)

Max. 0/2–10.2 V, adjustable as required
Galvanically isolated from input

Switching outputs

MFU 12: 2 voltage-free changeover contacts
MFU 14: 4 voltage-free changeover contacts

Configurable as required

Configurable functions: energising/de-energising, hysteresis, window or trend function, selectable delays for energising/de-energising, configurable functions: energising/de-energising, hysteresis, window or trend function, selectable delays for energising/de-energising
Contact rating: Max. AC 250 V

Linearisation

Via 24 free x/y points on characteristic curve, characteristic curve mode table, cylinder, sphere

Additional functions

Alarm message in the case of missing or defective sensor, Zoom function, spreading, inverted mode, trend indication, teach functions, automatic or manual simulation mode, Locking of parameters / editing lock, Programming interface

Supply voltage

AC 50 – 253 V
DC 20 – 253 V

Housing

DIN rail housing
W x H x D: 33 x 110 x 128 mm
Screw terminals removable

Options

- Programming software MFU 03-S (Win XP, Vista, 7) with interface cable and USB adapter
- Device with identical functions, but for temperature inputs (Pt100, Pt1000, Ni1000 and thermocouples)