

Multifunctional transducer MFU

12/14



- 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



Description

The digital multi-purpose transducers are freely programmable digital transducers with two analogue outputs and up to 4 relays. 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, multi-colour backlight, backlight can be switched off

Range

0 to 9999 digits (start and end value freely configurable), free scaling unit, 3 languages (English, French, German)

Accuracy

± 0.2 % of maximum value

Resolution

Inputs 13 bits, outputs 10 bits

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 19.5 ... 24.5 V DC

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

Up to 4 voltage-free changeover contacts
Configurable as required, max. AC 250 V
Selectable functions energising/de-energising, hysteresis, window or trend function
selectable delays for energising/de-energising

Linearisation

Via 24 free x/y 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

DC 20–253 V

AC 50–253 V

Housing

DIN rail housing

W x H x D: 33 x 110 x 128 mm

Screw terminals can be pulled off

Accessories (options)

- Programming software MFU 03-S (Win XP, Vista, 7) with interface cable and USB adapter
- Device with identical functions, but for temperature inputs (Pt 100, Pt 1000, Ni 1000 and thermocouples)

DG: H, PG: 4	Part no.	Price €
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