



## multifunctional transducer

### 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.

## 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

voltage-free changeover contacts  
Configurable as required  
Contact rating: max. AC 250 V  
configurable functions: energising/de-energising, hysteresis, window or trend function selectable delays for energising/de-energising

#### 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)

### Versions

|                      |                                    |   | Part no. |
|----------------------|------------------------------------|---|----------|
| Transducer<br>MFU 12 | 2 voltage-free changeover contacts | ● | 53722    |
| Transducer<br>MFU 14 | 4 voltage-free changeover contacts | ● | 53723    |

● in-stock items  
● Non-stock items