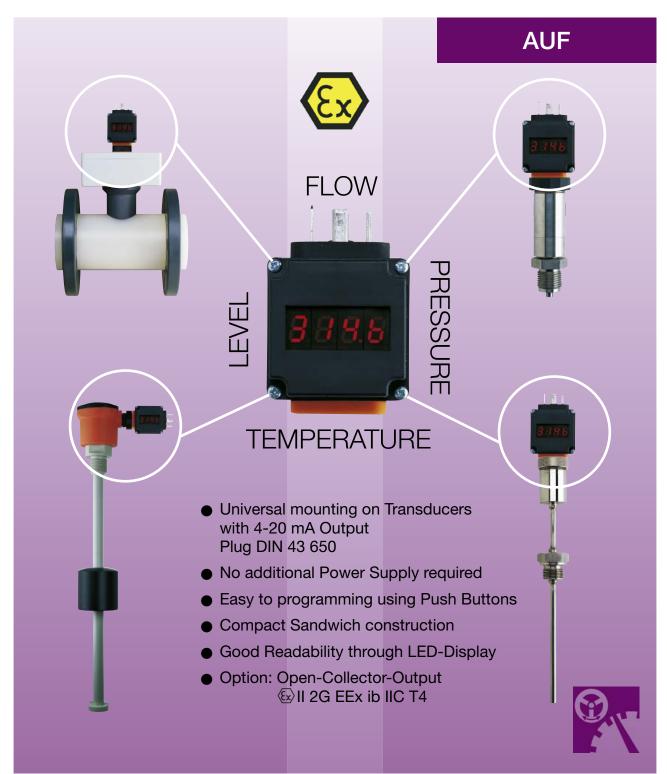


## **Plug-On Display for Transmitters Option: Limit Contact, Ex-Version**



measuring monitoring analysing



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#### **Description**

The model AUF-... plug-on display is a universal local display suitable for use with various transmitters. The transmitter must be fitted with an analogue output and a connector in accordance with DIN 43 650. Model AUF-2000 can be delivered for use in hazardous areas.

The plug-on display simply plugged in between connector and socket; it is then ready for operation. The plug-on display is user programmable. Scaling, the position of the decimal point, gate time and switch point (optional) may be set with two keys. The menu steps are output to the LED display field.

The plug-on display is supplied by the current loop of the 4 - 20 mA signal transmitter. No

additional auxiliary power is required. The programmed parameters are stored in an EEPROM; they are therefore not lost after power failure. Over or under range are displayed as a message on the LED display.

All device functions are continuously monitored by an integral diagnostic system. The indicating unit can be rotated in 90° steps; it can thus be adapted to different installation positions.

The integral open-collector output, available as an option, allows a transmitter to be retrofitted easily with a limit contact.

#### **Order Details**

Model	Description		
AUF-1000	Standard plug-on display, 4 -20 mA, 2-wire		
AUF-1001	Plug-on display with Open Collector, 4 -20 mA, 2-wire		
AUF-2000	Plug-on display (Ex) II 2G EEx ib IIC T4, 4-20 mA,		
	2-wire		
AUF-3000	Plug-on display, 4 -20 mA, 3-wire		
AUF-4000	Plug-on display, Input: pulse, output 4-20 mA (can		
	only be calibrated with factory-mounted sensor)		

## Scope of supply

Plug-on display, silicone flat gasket ring, fixing screw, operating instruction, stickers with physical units

#### **Technical Details**

2

Display: 4-stellige, digit red LED display,

digit height: 7.62 mm

programmable decimal point setting

Indicating range: -1999...9999

Accuracy: 0.2% of span ±1 digit

Electrical connection: to transmitters with 4-20 mA

output and plug acc. DIN 43 650,

polarized

Sensor supply: not required, loop-powered

24 V<sub>DC</sub> ±20% (only AUF-4000)







Voltage drop:  $\leq$  5 V (acc. to max. load 250  $\Omega$ )

Conversion rate: 3 measurements/second
Gate time: 0,3- 20 s (adjustable)
Data back-up: non-volatile EEPROM

Error message: HI: overrange

LO: underflow

Programming: with two keys, menu-assisted,

scaling of indication, decimal point, gate time, error message switch point

(AUF-1001)

Protection: IP 65

Temperature

influence on display: 0.1% / 10 KStorage temperature: -30...+80 °C

## Technical Data AUF-1.../AUF-3...

Max. current load: max. 60 mA

Case material: plastic PA6 GF30, orange

window: PMMA red

Ambient temperature: 0...+60°C

Open Collector: model AUF-1001, PNP,

max. current load 90 mA

## Technical Data AUF-2000

Voltage:  $U_i$  28  $V_{DC}$ Current:  $I_i$  100 mA Power:  $P_i$  0,9 W

Effective inner capacitance  $C_i$  negligible Effective inner inductance  $L_i$  negligible

Housing material: polyamide compound, black

window: PMMA, red

Ambient temperature -20 ... +40  $^{\circ}\text{C}$ 

#### Technical Data AUF-4000

(option for DIN plug connector connection, can only be

calibrated with factory-mounted sensor)

Display: 4-segment red LED

Temperature range:  $-20 \text{ to } +80^{\circ}\text{C}$ Power supply:  $24 \text{ V}_{DC} \pm 20\%$ Input: Pulses of DTK

(NPN-Hall effect sensor)

Output: 4-20 mA, 3-wire

Load:  $250 \Omega$ 

## Plug-on Display for Transmitters with 4 - 20 mA Output



## **Application Examples**

## Flow



- Calorimetric flow meter
- Turbine flow meter with analogue output
- Vortex flow meter

# Pressure



- Pressure sensors
- Manometer with analogue output

#### Level



- Level transmitter
- Bypass level indicator with transmitter

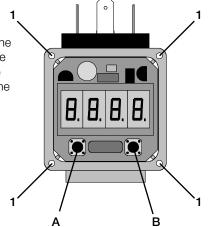
## Temperature



Temperature sensors with head mounted transmitter

## Adjustment

For adjustment, the 4 screws (1) of the display should be unscrewed and the cover removed.



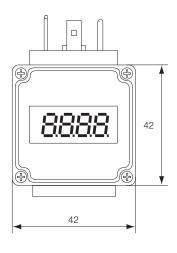
- Simple programming through keys A and B
- Free scaling of display value
- Software oriented adjustment of the decimal point
- Adjustable gate time of the display
- Recognition of overranging
- Freely programmable set-point adjustment (option)

## Plug-on Display for Transmitters with 4 - 20 mA Output

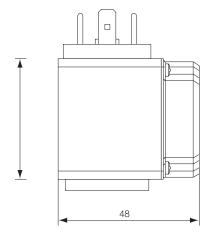


## Dimensions

#### Front view



## Side view



#### Accessory

For mounting of the plug-on display on devices with PG-connection, different adapters are available. The adapter is simply screwed in the existing PG-cable gland and wired to the device. At the opposite side of the adapter, is a plug according to DN 43650, on which the sandwich display can be simply plugged on.



## **Ordering Details**

Order no.	Description
AUF-PG11 for fitting in a PG-11 cable gland	
AUF-PG13	for fitting in a PG-13.5 cable gland
AUF-PG16	for fitting in a PG-16 cable gland

## Further options for OEM applications

(on request)

- Generic version
- Housing black or blue
- Company logo
- Client-specific adjustment
- Client-specific switching hysteresis

By Usage of model AUF-2000 in hazardous areas, an intrinsically safe current power supply transmitter should be used and being rectified with the electrical data of the connected sensor.

#### **Electrical connection**



	AUF-1000 AUF-2000	AUF-1001	AUF-3000 AUF-4000
PIN 1	+VS / S+	+VS / S+	+VS
PIN 2	GND/S	GND/S	GND
PIN 3	-	Switch out	Signal

