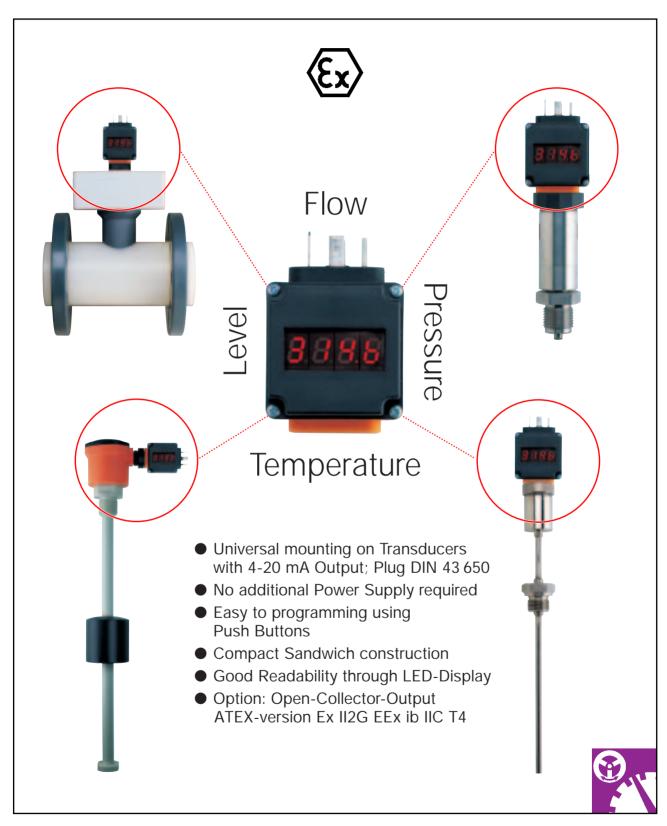


# Plug-On Display for Transmitters Option: Limit contact, Ex-Version



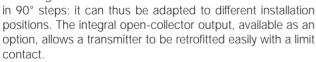




#### **Description**

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. Type AUF-2000 can be delivered for use in hazardous areas. The plug-on display is 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



#### **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: pulses, output: 4-20 mA

#### Scope of supply

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







#### **Technical Specifications**

Display: 4-digit red LED display,

Digit height: 7.62 mm

Programmable decimal point setting

Indicating range: -1999 to +9999

Accuracy: 0.2% of span  $\pm 1$  digit

Electrical connection: To transmitters with 4-20 mA output

and plug acc. DIN 43 650, polarized

Sensor supply: Not required,

Power supply:  $24VDC \pm 20 \%$  (only AUF-4000)

4-20 mA loop powered

Voltage drop: ≤ 5 V

Conversion rate: Three measurements/second

Attenuation: 0,3 - 20 (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 PA 6 GF30, orange

window: PMMA, red

Ambient temperature: 0...+60 °C

Open collector: type AUF-1001, PNP,

max. current load 90 mA

## **Technical Data AUF-2000**

Conformance: DMT 99 ATEX E 077 Ex-protection: Ex II 2G EEx ib IIC T4

Effective inner capacitance C<sub>i</sub> negligible Effective inner inductance L<sub>i</sub> negligible

Housing material: Polyamide compound, black

window: PMMA, red

Ambient temperature: -20...+40°C



## **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

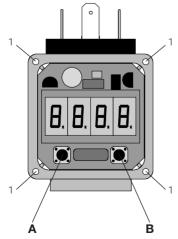
# **Temperature**



Temperature sensors with head mounted transmitter

## **Adjustment**

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

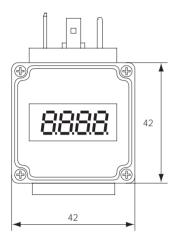


- Simple programming through keys A and B
- Free scaling of display value
- Software oriented adjustment of the decimal point
- Adjustable gate time of the display
- Recognition of overranging
- freely programmable set-point adjustment (option)

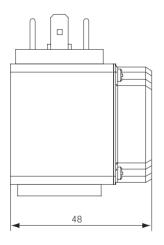


#### **Dimensions**

## Front view



## Side view



# **Electrical connection**



	AUF-1000 AUF-2000	AUF-1001	AUF-3000 AUF-4000
PIN 1	+V <sub>S</sub> /S+	+V <sub>S</sub> /S+	+V <sub>S</sub>
PIN 2	GND/S-	GND/S-	GND
PIN 3	-	Switch out	Signal

## 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 43 650, on which the sandwich display can be simply plugged on.



## **Ordering data**

Ordering data	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 intrinsicly safe current power supply transmitter should be used and being rectified with the electrical data of the connected sensor.

