GEFRANTDP PLUG-IN DISPLAY FOR TRANSMITTERS



Main features

- Universal mounting on Transducers with 4-20 mA Output; Plug DIN43650
- No additional Power Supply required
- · Easy to programming using Push Buttons
- Compact Sandwich construction
- Good Readability through LED-Display
- Alarm: Open-Collector-Output

The model TDP plug-in 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 DIN43650.

Type TDP2000 can be delivered for use in hazardous areas.

The plug-in display is simply plugged in between connector and socket; it is then ready for operation.

The plug-in display is user programmable. Scaling, the position of the decimal point, gate time and switch point may be set with two keys.

The menu steps are output to the LED display field.

The plug-in 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, allows a transmitters to be used easily with a limit contact.

TECHNICAL DATA

	4-digit red LED display; digit height: 7.62 mm	
Display	Programmable decimal point setting	
Indication range	-1999 to +9999	
Accuracy	0,2% of span ± 1 digit	
	To transmitters with 4-20 mA output and plug acc. DIN43650 (4-pin),	
Electrical connection	polarized	
Conversion rate	Three measurements/second until 25.5/second adjustable	
Data back-up	Non-volatile EEPROM	
<u>_</u>	HI: over range	
Error message	LO: under flow	
	With two keys, menu-assisted, scaling of indication, decimal point, gate time,	
Programming	error message switch point	
Protection	IP65	
Temperature influence on display	0,01%/°C	
Storage temperature	-30+80°C	
TDP-1001		
Indicator supply	Not required, 4-20mA loop powered	
Max current load	60 mA	
Voltage drop	≤ 5V	
Case material	Plastic PA 6 GK30; orange window: PMMA	
Ambient temperature	0+60°C	
Open collector	TDP-1001, PNP, max. current load 90mA	
TDP-2000		
Conformance	BVS99.E.2037	
Ex-protection	Ex II2GEEx ib IIC T4	
Voltage		
Current		
Power		
Effective inner capacitance	C1 negligible	
Effective inner inductance		
Housing material	Polyamide compound, window: PMMA	
Ambient temperature	-20+40°C	
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ELECTRICAL CONNECTIONS



+ Power supply - Signal Switch out PIN 1 PIN 2 PIN 3

For open collector output devices, O/P is between PIN nr. 2 and 3.

ADJUSTMENT



FURTHER OPTIONS FOR OEM APPLICATIONS

For OEM applications

- (on request)
- Generic version
- · Housing black or blue
- Company logo
- Client-specific adjustment
- Client-specific switching hysteresis

By usage of model TDP-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.



ACCESSORIES

For mounting of the plug-in 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 DIN43650A, on which the sandwich display can be sinply plugged on.

ordering code

For fitting in a PG-11 cable gland For fitting in a PG-13,5 cable gland For fitting in a PG-16 cable gland TDP-PG11 TDP-PG13 TDP-PG16



ORDERING INFORMATION

	TDP	
DESCRIPTION -		
Plug-in display with open collector	1001	
Plug-in display Ex II 2GEEx ib IIC T4	2000	

Note: To acheive the correct sealing rate use mating connector DIN43650A to Gefran code "CON045" or be sure to install a mating connector with height 27mm.

Sensors are manufactured in compliance with:

- EMC 2004/108/CE compatibility directive
- RoHS 2002/95/CE directive

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice



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