



Temperature Transmitter with Display

Application

- 4-20mA transmitter with LCD for Pt100 temperature sensor
- for installation in temperature sensor (see table)
- sensor monitoring

Features

- 4-digit display with green backlight
- temperature measurement in °C and °F
- easy range select by one button
- direct connection to the PLC
- lower costs for wiring because of 2-wire technology



Temperature Sensor with integrated display-transmitter mpu-LCD

Specification

Display	4-digits LCD Units	with backlight °C / °F
Display resolution		0,2°C bzw. 0,5°F
Messaufösung		ca. 0,1K
Accuracy	(range 100°C)	max. ±0,25%
Repeatability	(range 100°C)	±0,1%
Lowest current step		ca. 25µA
Range of signal		4...20,5mA
Temperature range	ambient	-40...+70°C
Measurement ranges	selectable	-10...40°C 0...50/100/150/200°C 0...100/150/200°F 30...230°F / 0...300°F
Power supply	(short cut) (R _{shunt} =500Ohm)	15...30VDC 22...36VDC
Output if failure	Sensor break Sensor short cut	output >21mA output <3,6mA
Electrical connection		M12-plug 4pins.

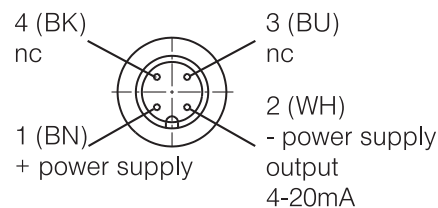
Installation possibilities of mpu-LCD in temperature sensor TFP-...

Process connection	Temperature sensor
M12x1,5 hygienic	TFP-42
M12x1,5 hygienic	TFP-52
G1/2" hygienic	TFP-41
G1/2" hygienic	TFP-44
G1/2" hygienic	TFP-51
G1/2" standard	TFP-40
G1/2" standard	TFP-50
without thread	TFP-49
with fermenter coupling	TFP-90

Order Code

Temperature Transmitter
mpu-LCD
Please note that you can order the mpu-LCD with temperature sensor only!
Order example: TFP-41 / 100 / mpu-LCD

Electrical Connection M12-plug



Programming

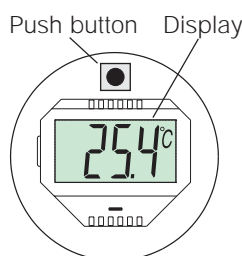


fig. 1



fig. 2

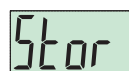


fig. 3

By pushing the button above the display, the actual measurement range will be shown (fig. 2). Pushing again the button further ranges can be selected. After approx. 3s "Star" will be shown on the display (fig. 3). Press now again the button to save the selected range. Afterwards the actual temperature value will be shown again (fig. 1).