## UNIVERSAL DISPLAY FOR STANDARD SIGNALS



#### **GIA 2448**

Art. no. 600090 (standard model)

Display for Standard Signals (for self-adjustment)

#### GIA 2448 WE 1)

Display for Standard Signals (settings and calibrations by our works)

1) Please specify as follows upon order: Input signal, scaling (lower and upper limits), decimal point and supply voltage. (Order to read e.g. GIA 2448 WE: 4-20 mA, 4 mA=-50.0, 20

mA = 100.0, 12 VDC)	
Specifications:	
Measuring input:	0 20 V, 0 10 V, 0 2 V, 0 1 V, 0 200 mV, 0 20 mA and 4 20 mA (select via soldering jumpers)
Display range:	-1999 +1999 digit (adjustable via soldering jumpers and potentiometer)
Decimal point:	any position by means of soldering jumpers (soldering jumpers accessible after removal of front panel)
Accuracy:	$\pm 0.2 \% \pm 1$ digit (at nominal temperature = $25 \degree C$ )
Scan rate:	approx. 3 measurements / s
Display:	3½-digit, red 10 mm high LED display
Working temperature:	0 50 °C (permissible ambient temperature)
Relative humidity:	5 95 % RH (non-condensing)
Storage temperature:	-20 +70 °C
Storage temperature:	8 20 V DC or 18 29 V DC (standard) (set via soldering jumper)
Current supply:	max. 20 mA
Panel mounting:	with VA-spring clamp. allowed panel thicknesses from 1 approx. 10 mm
Connection terminal:	4-pin screw-type/plug-in terminal for wire cross sections from 0.14 1.5 mm <sup>2</sup>
Protection rating:	front side IP54
Housing:	glass fibre reinforced Noryl, front panel PC
Dimensions:	48 x 24 mm (W x H) (front frame)
Mounting depth:	approx. 65 mm (incl. screw-type/plug-in terminal)
Panel cut-out:	45 <sup>+0.5</sup> x 21,7 <sup>+0.5</sup> mm (W x H).
Scope of supply:	Device, manual

#### Option:

VAC

8 ... 20 V AC or 18 ... 27 V AC set via soldering jumper

11 ... 13 V DC, electrically isolated

G24

22 ... 27 V DC, electrically isolated

## Accessories and spare parts:

## **GNG 220/2-12V**

Art. no. 600305

power supply for GIA 2448 and GTH 2448

(Input: 230 VAC; output: 2 x 12 VDC regulated, 30 mA each)

## GNG 12 / 24

Art. no. 600276

DC/DC-converter to electrically isolate 12 V DC-supply voltages

### GNG 24 / 24

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DC/DC-converter to electrically isolate 24 V DC-supply voltages

for additional accessories, transmitter, probes p.r.t. chapters transmitter and temperature probe

## UNIVERSAL DISPLAY FOR TEMPERATURE



GTH 2448/2

Art. no. 600084 Display for temperature (Pt100)

# GTH 2448/3

Art. no. 600085

Display for temperature (Pt100)

## GTH 2448/4

Art. no. 600086

Display for temperature (Pt1000)

## GTH 2448/5

Art. no. 600087

Display for temperature (Pt1000)

## Specifications:

Measuring input, Resolution:		
GTH 2448/1:	-50 +1150 °C (NiCr-Ni)	
GTH 2448/2:	-200 +650 °C (Pt100, 2-wire), 1 °C	
GTH 2448/3:	-60.0 +199.9 °C (Pt100, 2-wire), 0.1 °C	
GTH 2448/4:	-200 +650 °C (Pt1000, 2-wire), 1 °C	
GTH 2448/5:	-60.0 +199.9 °C (Pt1000, 2-wire), 0.1 °C	
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## Accuracy: (at nominal temperature = 25 °C)

 $\pm 1~\% \pm 1$  digit (from -20 ...+550 °C and 920 ...1150 °C) NiCr-Ni:

±1.5 % ±1 digit (from 550 ... 920 °C)

Pt100, Pt1000: ±0.5 °C ±1 digit or ±1 °C ±1 digit

The zero point offset of the sensor (e.g. due to long cables) can Offset compensation: (only for Pt100 and

be compensated for by means of the spindle trimmer on the Pt1000) backside of the device.

Display: 31/2-digit, red 10 mm high LED display

Scan rate: approx. 3 measurements / s

Working temperature: 0 ... 50 °C (permissible ambient temperature)

**Relative humidity:** 5 ... 95 % RH (non-condensing)

Storage temperature: -20 ... +70 °C

8 ... 20 V DC or 18 ... 29 V DC (standard) Voltage supply:

(set via soldering jumper)

Current supply:

with VA-spring clamp. allowed panel thicknesses from 1 ... Panel mounting:

approx. 10 mm

**Connection terminal:** 4-pin screw-type/plug-in terminal

for wire cross sections from 0.14 ... 1.5 mm<sup>2</sup>

**Protection rating:** front side IP54

Housing: glass fibre reinforced Noryl, front panel PC

Dimensions: 48 x 24 mm (W x H) (front frame)

Mounting depth: approx. 65 mm (incl. screw-type/plug-in terminal)

Panel cut-out: 45<sup>+0.5</sup> x 21,7<sup>+0.5</sup> mm (W x H)

Scope of supply: Device, manual

## System solution - complete packages:

# **KFZ 2000**

Art. no. 603241

Exhaust gas temperature set for measurement of exhaust gas temperatures up to 1000 °C in motor vehicles (e.g. motorsports). The set consists of:

### GTH 2448/1 12 V DC:

Art. no. 601017

NiCr-Ni thermometer with additional over-voltage protection

## GTF 101-5-30-0150-L03-S:

temperature probe with jacket material: Nimonic 75 (view p.r.t. page 207)

Cable length = 3 m, extended cable against upcharge available

### GKV 4:

Art. no. 602891

clamping ring screw connection (p.r.t. page 219)