

- **Input: 0...10 V,  
0(4)...20 mA**
- **Microprocessor controlled for a wide range of functionen**
- **Display can be calibrated and scaled**
- **4 1/2 Decades segment hight 14 mm**
- **Implemented supply for sensor**
- **Additional options available**
- **For mains :  
85 ... 265 VAC 50/60 Hz (100 - 300 VDC)**
- **For installation to front penal 48 x 96 mm**
- **Connection via clamp contact**



### Features

The display has 4 1/2 decades. It allows for a display range of -19999 to 19999. The programming is done on 3 keys on the front. The position of decimal point is free programmable. The characteristic of the sensor can be linearised using 10 points. Between two points a linear interpolation is done. The colour of the display can be selected to be red, green or yellow.

### Microprocessor controlled

All parameters are stored in a non volatile memory (EE-Prom) thus they are active after switching off and on. The calibration of the device is done during production so that the user does not need to carry out adjustments. The configuration and adaptation to the sensor is done on the keys.

### Construction: Plug & Play

The modular construction allows the implementation of additional functions as required by the application. The internal micro processor detects the availability of all additional boards and activates the software menus accordingly. So the user is not bothered with useless parameters.

### Following options can be plugged in

- RS 232 / RS 485 Interface
- Programmable analog output
- BCD output
- 2 change-over relays
- 4 standard relays
- 4 opto coupler

### Mechanical data

The black case consists of stable polycarbonat.

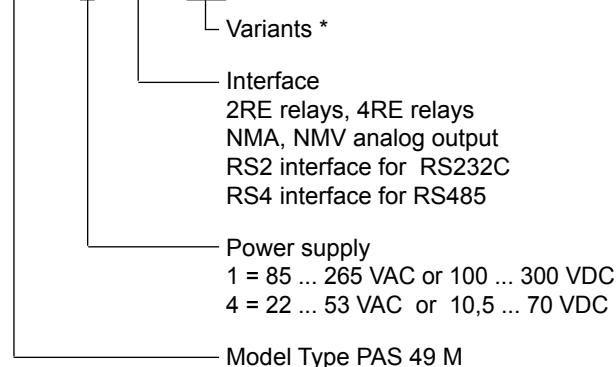
- Measures:
  - Width = 96 mm
  - Height = 48 mm
  - Length = 60 mm
- Weight: 160 g
- Protection grade of front plate: IP65
- Fire protection classification: UL94 V0

### Electrical data

- Range od display: -19999 bis 19999
- Input: 0 ... 10 V, 0(4) ... 20 mA
- A/D conversion: 15 bit A/D resolution
- Conversion rate: 20 / s.
- Range of supply voltage: 85 ... 265 VAC 50/60 Hz (100 - 300 VDC)
- Supply range alternative: 22 ... 53 VAC 50/60 Hz (10,5 ... 70 VDC)
- Power consumption: 5 W typ (8 W max.)
- Auxiliary supply for sensor 5V, 10 V or 24 VDC @ 60mA
- Temperature range: - 10 °C ... + 60 °C
- Storage temp. range: - 25 °C ... + 80 °C
- Connection of wires: Spring-type terminal

### Ordering code format \*\*

**PAS 49 M - 1 - 2RE - E20**



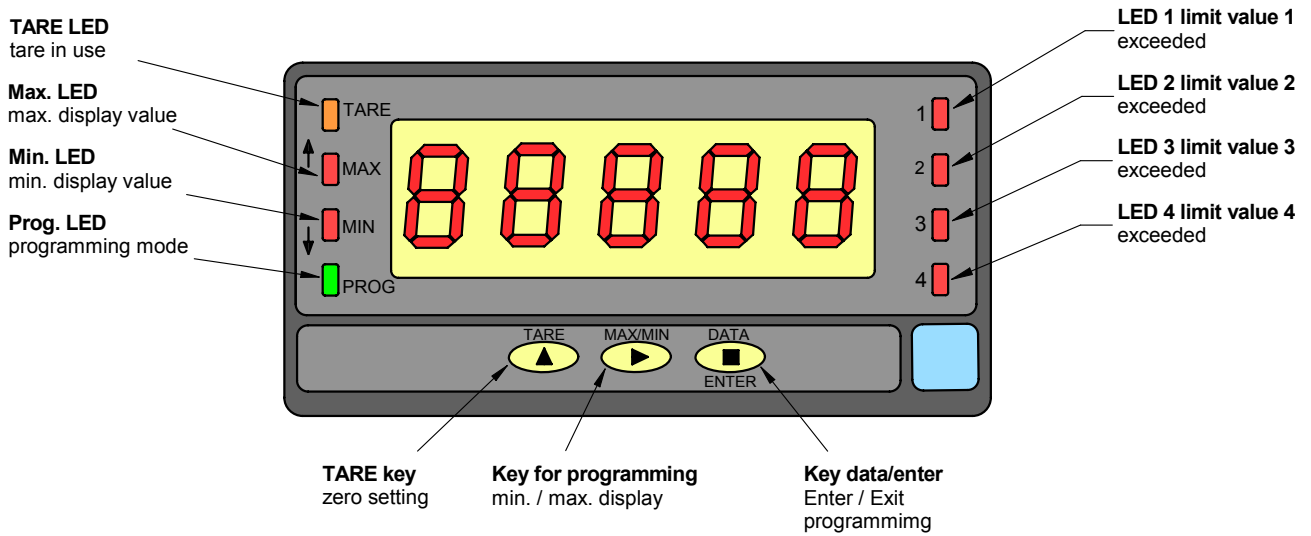
\* The basic versions according to the data sheet have the number 20. Variations from basic standard are numbered.

\*\* The feasibility of combination of options is shown in the table of page 2.

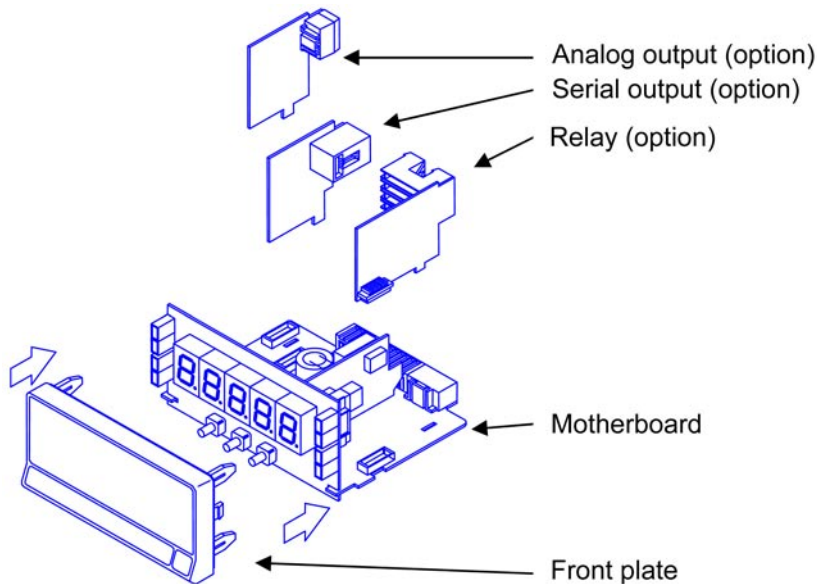
### Remark

This data sheet replaces data sheet PAS 10925.

**Model PAS 49M view to LEDs and keys**



**View of implementing the options for analog output, serial output and relay**



**Short description of options**

Option	Every slot can only be used once - some options are alternatively	Slot no.
2RE	2 x change-over relays 8 A / 250 VAC or 150 VDC Programmable on keys with delay or hysteresis. Activation by over or under going of programmed limit value.	A5
4RE	4 x relays 0,2 A / 250 VAC or 50 VDC Programmable on keys with delay or hysteresis. Activation by over or under going of programmed limit value.	A5
4OP	4 x opto- coupler with NPN output 50 mA, 50 VDC Programmable on keys with delay or hysteresis. Activation by over or under going of programmed limit value.	A5
4OPP	4 x opto- coupler with PNP output 50 mA, 50 VDC Programmable on keys with delay or hysteresis. Activation by over or under going of programmed limit value.	A5
NMA	Analogue output 4 - 20 mA Output proportional to display value.	A4
NMV	Analogue output 0 - 10 VDC Output proportional to display value	A4
BCD	BCD parallel-output 21 Data lines (5 digit und sign), polarity and overflow. This option can not be combined with any other option. It needs all the available slots	A1-5
RS2	RS 232 serial interface transmission / change of Min- , Max- , tareand limit values. Baud rate: 1200, 2400, 4800, 9600, 19200	A1
RS4	RS 485 serial interface transmission / change of Min- , Max- , tareand limit values. Baud rate: 1200, 2400, 4800, 9600, 19200	A1