Programmable position indicator
for inductive transducers
Model PAS 49L

PAS 11968 BE

02 / 2009

- **For connection to and excitation of inductive transducers (halfbridges and LVDT)**
- **Micoprocessor controlled for a wide range of function**
- **Display can be calibrated and scaled**
- **5 1/2 decades segment hight 14 mm**
- **For mains connection ~115/230 VAC or for 24 VDC supply**
- **For installation to front panel 48 x 96 mm**
- **Connection via clamp contact**

Features

With oscillator / demodulator for inductive transducers (halfbridges type and LVDT) without integral electronics. Not applicable for potentiometric transducers.

Bright and good visible display. Display range: -32000 to 32000. Capable for two-position control as up to four limit values can be programmed and monitored. Two change-over relays or four standard relays can be implemented for controlling purposes. The unit of measurement can be put on to the front plate.

Suited for maximum-minimum value display (drag indicator function). Tare, Min. and Max. can be displayed and reseted separately. Connection to PC / EDP via RS232/485 is optional possible.

Remote controlled servo controll possible. All functions can be programmed for remote controll. Even complex systems with 4 limit values.

Linearisation of sensor on 10 points of the characteristic possible.

Micro processor controll

All programmed values are stored in an non volantile memory EE-prom. The calibration is done in the factory. The customer specific configuration is keyed in on five function keys.

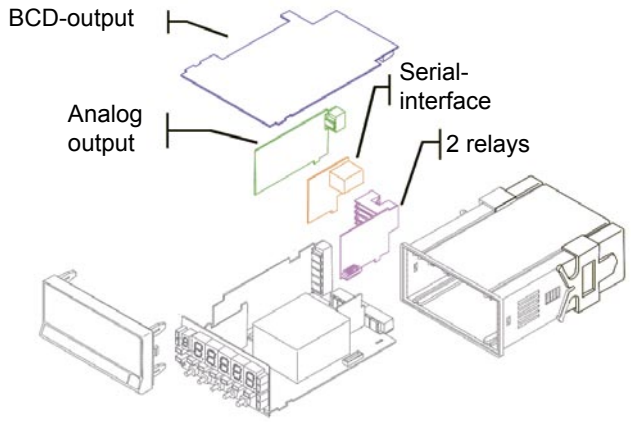
Basic version

■ Number of decades + LEDs:	5 1/2 + 14 LEDs
■ A/D converter resolution:	16 Bit
■ Supply of sensor:	3,5 or 5 kHz 1 or 2.2 V
■ Power consumption:	10 W (max.)
■ Temperature range:	-10 to +60 °C
■ Protection grade of front plate:	IP65
■ Fire protection classification:	UL94 V0

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.

The possible options are listed in the table on page 2



Mechanical data

The black case consists of stable policarbonat

■ Measures:	Width = 96 mm Hight = 48 mm Length= 120 mm
■ Weight:	220 g

Remark

This data sheet replaces data sheet PAS 10925.

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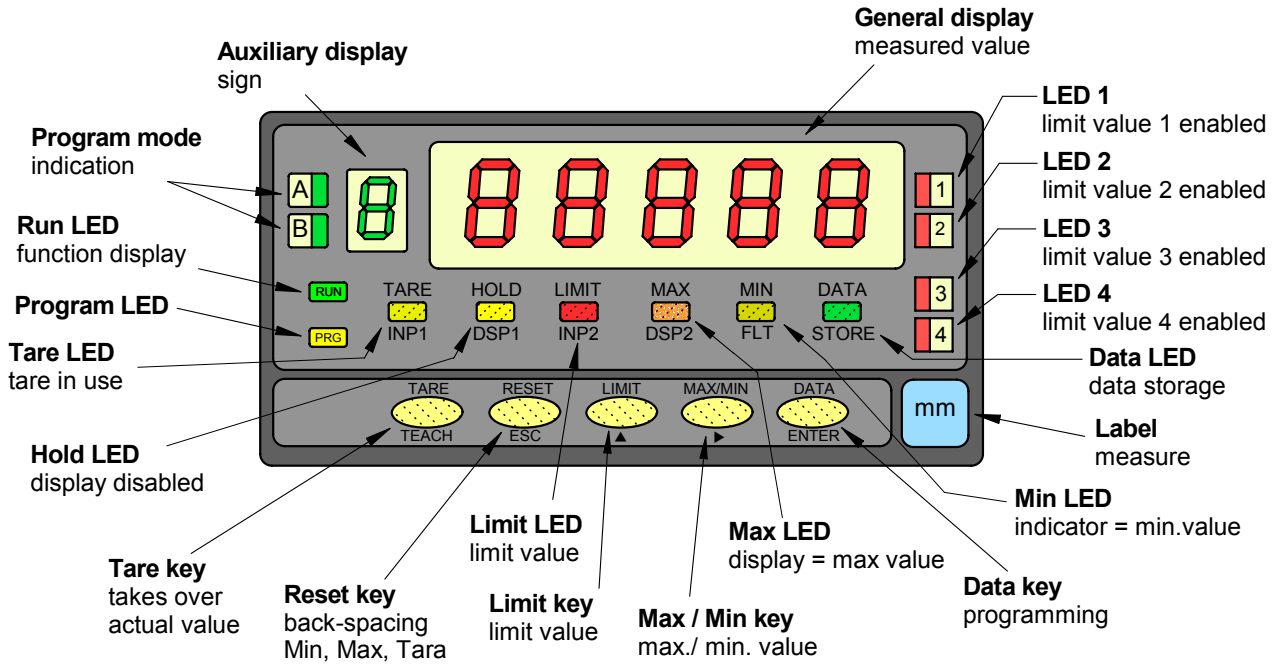
Modell PAS 49L LEDs and keys



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
ANA	Analogue output 0 - 10 VDC or 4 - 20 mA 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

Order code format **

PAS 49 L - 1 - ANA - RS2 - 2RE *V1* E01

- E01: Elektrical and mechanical variants*
- *V1*: Pre programming optional
- 2RE: Limit swithes Grenzwertschalter
  - 2RE 2 change-over relays
  - 4RE 4 standard relays
  - 4OP 4 opto-coupler NPN
  - 4OPP 4 opto-coupler PNP
- RS2: Digital interfaces
  - BCD Parallel output
  - RS2 RS 232C
  - RS4 RS 485
- ANA: Analog output
  - ANA 0 - 10 VDC or 4 - 20 mA
- 1: Supply voltages
  - 1 = mains 230 VAC
  - 2 = mains 115 VAC
  - 3 = 24 VAC
  - 4 = 24 VDC
  - 5 = 12 VDC
  - 6 = 48 VAC
- L: Model: L
- PAS 49: Model type: PAS 49

* The basic versions according to the data sheet have the number 01. Variations from basic standard are numbered.

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

Remark:

- The cable length betwee sensor and display shall not exceed 100 m.
- Available cables:
  - Shilded silicon cable 3 x 0,14 mm² diameter 5 mm SLIFEPCSI-OB
  - Shilded silicon cable 3 x 0,25 mm² diameter 7,5 mm SIHFCSI-OB
- Matting plugs are includet to the delivery