

# Relative pressure transmitter and electronic pressure switch programmable type 619

Pressure range  
-1 ... 0 – 600 bar

The  $\mu$ P-regulated, programmable pressure transmitter type 619 has a robust industry design. Parameters can easily be programmed with three different configuration menus with easy to operate keys. All systems are equipped with a diagnostic function. The large 4 digit LED display assures a good accuracy of reading.

- Robust industry design
- High over pressure
- 4-digit LED display
- Sensitive operation keys
- Ergonomic design
- Diagnostic function
- Front cover



## Technical overview

### Pressure range

Relative -1 ... 0 – 600 bar

### Operating conditions

Medium		Liquids and gases
Temperature	Medium / ambient / storage	-20 ... +80 °C
Overload	-1 ... 250 bar	4 x fs
	-1 ... 400 bar	3 x fs
	-1 ... 600 bar	2 x fs
Rupture pressure		6 x fs (max. 1800 bar)

### Materials

Case		Nickel plated, Zinc pressure die casting
Key protection		PC with lettering
Materials in contact with medium	Sensor	Ceramic Al <sub>2</sub> O <sub>3</sub> (96%)
	Pressure connection	Stainless steel 1.4305
	Sealing material	FPM

### Electrical overview

Output		0 ... 10 V
		4 ... 20 mA
	Open-collector switching output for max. 200 mA, programmable NPN or PNP, contact NO or contact NC	
Power supply		17 ... 33 VDC
Load	0 ... 10 V	> 10 kOhm
	4 ... 20 mA	< 500 Ohm
Current consumption		typ. 50 mA, max. 200 mA
Polarity reversal protection	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	

### Display

7 Segment LED, 4 digits for the indication of pressure measuring values, programming codes and parameter values.

Point-LED for state indication of switching points.

Point-LED for indication of programmed measuring unit.

### Programming

All settings can be made in unpressurised state or during the operation. Ex works with standard setting. The diagnostic function is active in all menus.

#### Menus:

«PROG» Configuration of different system functions, input of switching point, diagnostic function

«USER» Input of switching point

«READ» Reading of all configuration- and input parameters

**Display:** Pressure unit in bar/psi or MPa/ psi. Reaction time eligible in steps 1% fs (slow), 0.5% fs (normal) or 10 ms (fast).

**Analogue output:** Response time adjustable of 5 ... 500 ms, output characteristic line adjustable of 75 ... 125% fs

Digital output: Measuring range

rising pressure 8 ... 100% fs

falling pressure 5 ... 97% fs

P or N-switching, open-close-contact, rise delay time eligible Rise delay time 0 – 50 s, Switch off delay time 0 – 50 s, Response time 5 ... 500 ms.

### Diagnostic function

Manual operation with keyboard: Test of sensor circuit and of ceramic cell as well as memorising peak pressure.

Version with diagnostic input (shunt-cal): feed-back with 50% fs signal 12 mA or 5 V.

### Protection standard

IP 67

### Electrical connection

Connector M12x1

### Pressure connection

Inside thread G ¼

### Installation arrangement

Unrestricted

### Tests / Admissions

Electromagnetic compatibility CE conformity acc. EN 61326-2-3

UL

CSA

### Weight

610 g

### Packaging

Single packaging in cardboard

## Accuracy

Parameter	Unit	-1 ... 600 bar ≤ 2-fold overload	-1 ... 400 bar ≤ 3-fold overload	-1 ... 250 bar ≤ 4-fold overload
Tolerance zero point	max. % fs	± 0.5	± 0.75	± 1.0
Tolerance full scale	max. % fs	± 0.5	± 0.75	± 1.0
Resolution	% fs	0.1	0.1	0.1
Total of linearity, hysteresis and repeatability	max. % fs	± 0.5	± 0.75	± 1.0
Long term stability acc. to DIN EN 60770	% fs	± 0.5	± 0.75	± 1.0
TC zero point <sup>1)</sup>	max. % fs/10K	± 0.5	± 0.75	± 1.0
TC sensitivity <sup>1)</sup>	max. % fs/10K	+ 0.15	+ 0.23	+ 0.3

<sup>1)</sup> TC = Temperature coefficient





FOR FINE PRESSURE AND FLOW MEASUREMENT

Huba Control AG  
Headquarters

Industriestrasse 17  
5436 Würenlos  
Telefon +41 (0) 56 436 82 00  
Telefax +41 (0) 56 436 82 82  
info.ch@hubacontrol.com

Huba Control AG  
Niederlassung Deutschland

Schlattgrabenstrasse 24  
72141 Walddorfhäslach  
Telefon +49 (0) 7127 23 93 00  
Telefax +49 (0) 7127 23 93 20  
info.de@hubacontrol.com

Huba Control SA  
Succursale France

Rue Lavoisier  
Technopôle Forbach-Sud  
57602 Forbach Cedex  
Téléphone +33 (0) 387 847 300  
Télécopieur +33 (0) 387 847 301  
info.fr@hubacontrol.com

Huba Control AG  
Vestiging Nederland

Hamseweg 20A  
3828 AD Hoogland  
Telefoon +31 (0) 33 433 03 66  
Telefax +31 (0) 33 433 03 77  
info.nl@hubacontrol.com

Huba Control AG  
Branch Office United Kingdom

Unit 13 Berkshire House  
County Park Business Centre  
Shrivenham Road  
Swindon - Wiltshire SN1 2NR  
Phone +44 (0) 1993 776667  
Fax +44 (0) 1993 776671  
info.uk@hubacontrol.com

[www.hubacontrol.com](http://www.hubacontrol.com)