

## Digital indicator type 800

Pressure range  
0 ... 800 bar  
Indicator in mbar / bar



Type 800 digital indicators are equipped with a 4 digit display, as well as optional switch and analogue outputs. The sensor signal is evaluated and indicated as pressure by the digital display. The programming of the limit value output can be executed with the buttons on the front or via a data cable from a computer.

- Ease of use
- All adjustments are possible from the front of unit
- Limit value switching points pre-adjustable without application of pressure
- Transmitter power supply from indicating device saves cabling
- Electrically isolated signal transmission direct to measurement value acquisition system or to PLC controllers

## Technical overview

### Pressure range <sup>1)</sup>

0 ... 800 bar

### Temperature

Temperature coefficient	Zero drift	typ. 30 ppM/°C
	Amplification drift	typ. 25 ppM/°C
Ambient temperature		-5 ... +45 °C
Max. air humidity		95% non condensing

### Electrical overview

Output <sup>2)</sup>	Max. signal current cable length	Max. load current	Relay contacts
0 ... 20 mA			
4 ... 20 mA	2000 m, 2 wire	500 Ohm ( $\Delta$ 10 V / 20 mA)	Loading 1 A / 230 VAC at ohmic load
0 ... 10 VDC			
Power supply	20 ... 253 VAC or VDC	50/60 Hz	
Transmitter supply 2 wire			24 VDC, max. 25 mA
			0 ... 10 VDC
			0 ... 5 VDC
			0 ... 20 mA
			4 ... 20 mA
Input <sup>3)</sup>			4 ... 7.0 W at 230 VAC
Power consumption			

### Accuracy

At 23 °C ambient temperature	$\pm$ 0.1 %
Repeatability	$\pm$ 0.1 %
Long term stability (after 3 months)	$\pm$ 0.1 %
Hysteresis (Factory-sides)	$\pm$ 5 parts

### Type of connection

Screw terminal	3 + 8 pole	for 800.8
	3 + 6 + 8 pole	for 800.7

### Indicator

LED red	4 digits	mbar / bar	character height 14.2 mm	Range -1999 ... 9999
---------	----------	------------	--------------------------	----------------------

### Limit values

Both limit values adjustable within the whole range.	Adjustment of limit values	Limit value indicating	Indicating of limit value status
	with buttons on the front	with buttons on the front	Each with a red LED

### Protection class

without protection cover	IP 40
with protection cover	IP 54

### Fastening

with 2 quick connect couplings

### Weight

~ 200 g

<sup>1)</sup> Special pressure ranges on request

<sup>2)</sup> Special outputs on request

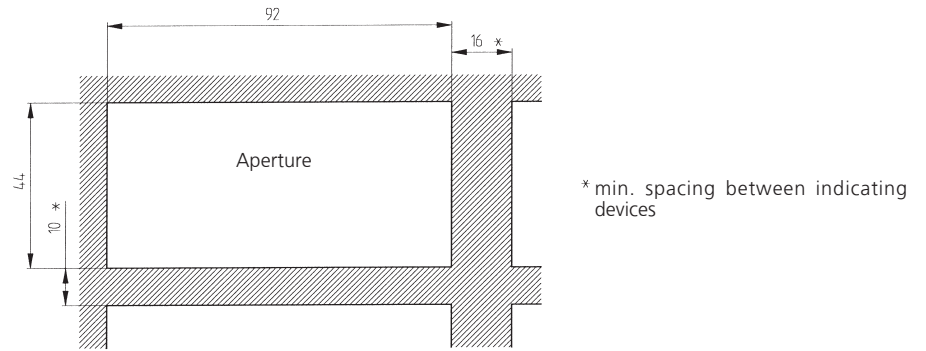
<sup>3)</sup> Special inputs on request

		1	2	3	4	5	6	7	
<b>Order code selection table</b>		<b>800. X X X X X X X</b>							
<b>Type</b>	Without limit value switch	8							
	With 2 limit value switches	7							
<b>Pressure range</b>	0 ... 0.5 mbar		0	0					
	*0 ... 1 mbar		0	1					
	*0 ... 1.6 mbar		0	2					
	0 ... 2 mbar		0	3					
	*0 ... 2.5 mbar		0	4					
	0 ... 3 mbar		0	5					
	0 ... 3.2 mbar		0	6					
	*0 ... 4 mbar		0	7					
	0 ... 5 mbar		0	8					
	*0 ... 6 mbar		0	9					
	0 ... 8 mbar		1	0					
	*0 ... 10 mbar		1	1					
	*0 ... 16 mbar		1	2					
	0 ... 20 mbar		1	3					
	*0 ... 25 mbar		1	4					
	0 ... 30 mbar		1	5					
	0 ... 32 mbar		1	6					
	*0 ... 40 mbar		1	7					
	0 ... 50 mbar		1	8					
	*0 ... 60 mbar		1	9					
	0 ... 80 mbar		2	0					
	*0 ... 100 mbar		2	1					
	*0 ... 160 mbar		2	2					
	0 ... 200 mbar		2	3					
	*0 ... 250 mbar		2	4					
	0 ... 300 mbar		2	5					
	0 ... 320 mbar		2	6					
	*0 ... 400 mbar		2	7					
	0 ... 500 mbar		2	8					
	*0 ... 600 mbar		2	9					
	0 ... 800 mbar		3	0					
	*0 ... 1 bar		3	1					
	*0 ... 1.6 bar		3	2					
	0 ... 2 bar		3	3					
	*0 ... 2.5 bar		3	4					
	0 ... 3 bar		3	5					
	0 ... 3.2 bar		3	6					
	*0 ... 4 bar		3	7					
	0 ... 5 bar		3	8					
	*0 ... 6 bar		3	9					
	0 ... 8 bar		4	0					
	*0 ... 10 bar		4	1					
	*0 ... 16 bar		4	2					
	0 ... 20 bar		4	3					
	*0 ... 25 bar		4	4					
	0 ... 30 bar		4	5					
	0 ... 32 bar		4	6					
	*0 ... 40 bar		4	7					
	0 ... 50 bar		4	8					
	*0 ... 60 bar		4	9					
	0 ... 80 bar		5	0					
	*0 ... 100 bar		5	1					
	*0 ... 160 bar		5	2					
	0 ... 200 bar		5	3					
	*0 ... 250 bar		5	4					
	0 ... 300 bar		5	5					
	0 ... 320 bar		5	6					
	*0 ... 400 bar		5	7					
	0 ... 500 bar		5	8					
	*0 ... 600 bar		5	9					
	0 ... 800 bar		6	0					
	<b>Power supply</b>	20 ... 253 VAC or VDC			0				
	<b>Input</b>	0 ... 10 VDC					0		
		0 ... 5 VDC					1		
		0 ... 20 mA					2		
	<b>Output</b>	4 ... 20 mA					3		
		0 ... 20 mA						0	
		4 ... 20 mA						1	
	<b>Version</b>	0 ... 10 VDC						2	
								N	

**Accessories <sup>2)</sup>**

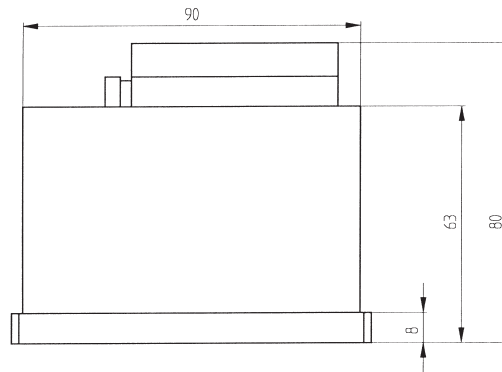
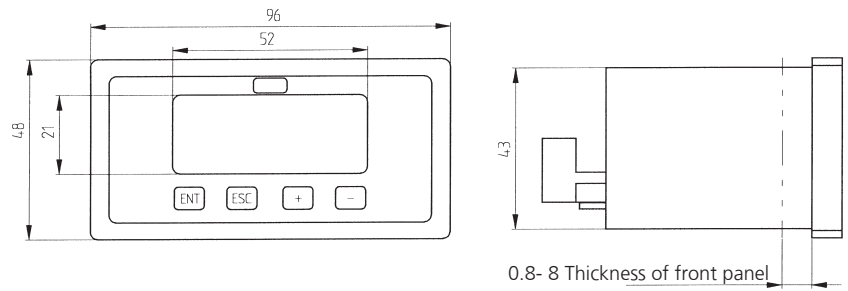
Protection cover	Order number 800.100
Data cable	800.200

<sup>1)</sup> Pressure range acc. to DIN 16128      <sup>2)</sup> Accessories supplied loose



Lug marking:

- 1 = Auxiliary power: AC ~/DC (+)
- 2 = Auxiliary power: AC ~/DC (-)
- 3 = Auxiliary power: PE
- 4 = Output signal (+)
- 5 = Output signal (-)
- 6 = Output signal PE
- 7 = Free
- 8 = Two-wire sensor power supply +24V
- 9 = Input signal (-)
- 10 = Input signal voltage (+)
- 11 = Input signal current (+)
- 12 = Limit value 1, NO contact
- 13 = Limit value 1, Change-over contact
- 14 = Limit value 1, NC contact
- 15 = Limit value 2, NO contact
- 16 = Limit value 2, Change-over contact
- 17 = Limit value 2, NC contact



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