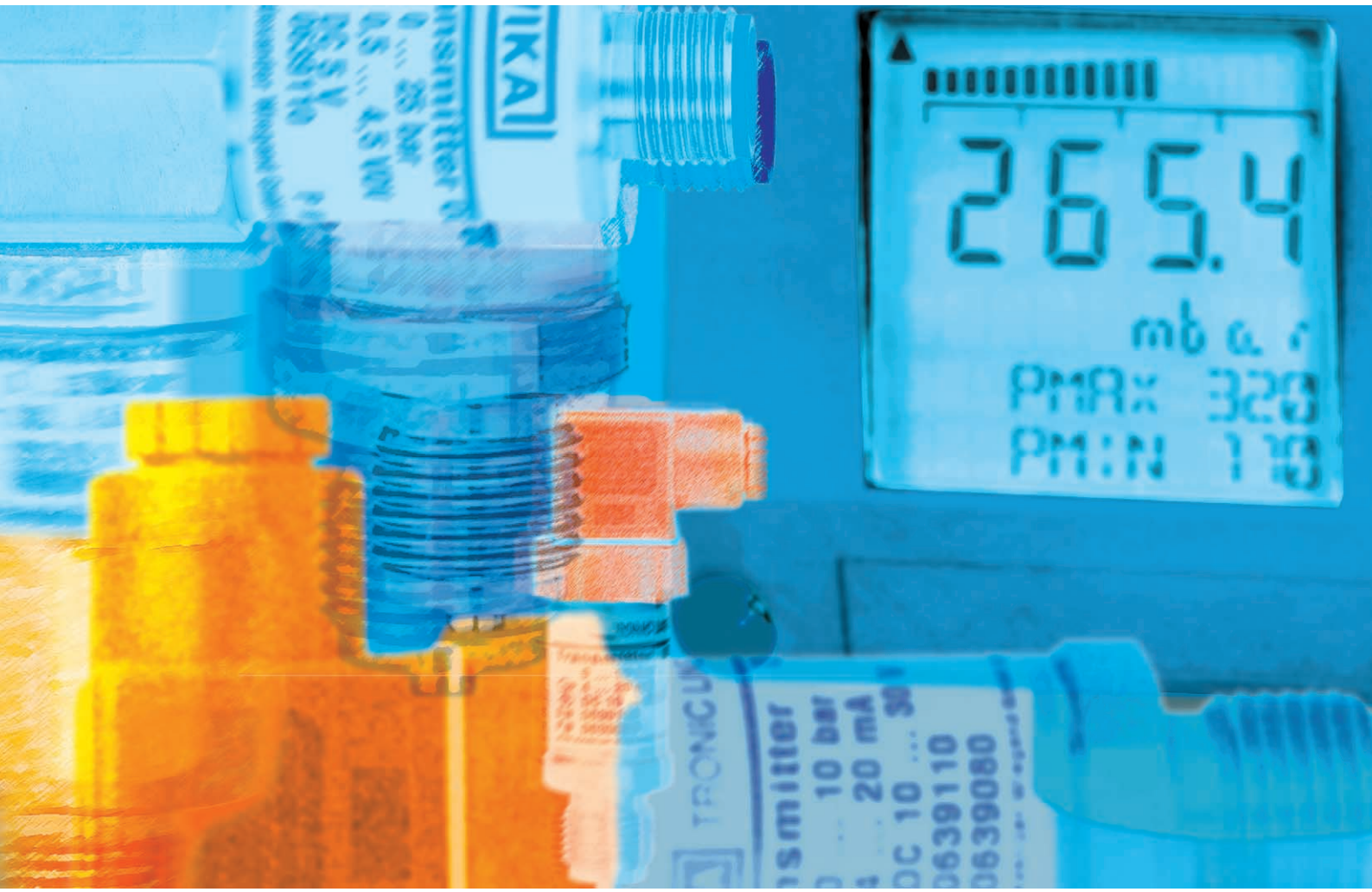
Product Review

Electronic
Pressure Measuring Instruments



WIKA

Part of your business

Contents

Sensor production in clean rooms guarantees high quality standards

All tests during product development are carried out at WIKA

Production capabilities for small batch up to large quantities

Able to meet any challenge

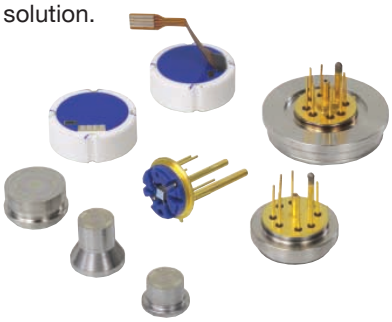
Shaping the future

WIKA – as a leader in pressure and temperature measurement – has actively promoted the existing trend towards electronic pressure measurement right from the start.

For more than six decades WIKA has obtained an extensive application experience in the field of mechanical pressure measuring instruments. This invaluable experience has also been the basis for the wide range of innovative pressure sensors and transmitters.

Ready for any application

Whether ceramic thick film, piezoresistive or metal thin film sensors – WIKA is the only manufacturer worldwide to produce the complete range of today's leading sensor technologies.
Do you need a standard instrument or a customer specific version?
We are ready to meet every application with the optimum solution.



Certified quality

The WIKA quality assurance management system has been certified in accordance with DIN EN ISO 9001, VDA 6.1 and ISO/TS 16949:2002.

Our main focus is our customers

In order to meet all of our customers' expectations we offer the complete range of necessary services:
A professional project management, leading from individual consulting and cooperation to a complete documentation.

With the help of powerful development tools such as e.g. 3D-CAD (Pro E) and state-of-the-art communication we can guarantee an efficient project handling with our customers.

Since we have our own in-house testing laboratories for EMC and other environmental simulation tests we are able to avoid time-consuming external processes.

WIKA product lines

- Electronic pressure measuring instruments
- Mechanical pressure measuring instruments
- Diaphragm seals
- Electric temperature measuring instruments
- Mechanical temperature measuring instruments
- Testing and calibration technology

If you need assistance in choosing your pressure measuring instrument, please contact us.

Features Pressure ranges	Model
Standard	all products on the following pages except of those listed below
Low pressure (< 0.1 bar)	SL-1
High pressure (>1000 bar)	HP-1, UT-10, IUT-10, IS-20-H
Pressure medium	
Version for liquids and gases (e. g. S-10)	all products on the following pages except of those listed below
Flush diaphragm, for viscous fluids or media containing particulates (e. g. S-11)	S-11, M-11, D-11, D-21-9, D-11-9, D-11-7, IUT-11, IS-21, N-11, F-21, P-11, UT-11
Version for food and beverage	SA-11
Version for Ultra High Purity	WU-1
Design	
Small size	M-10
Signal	
Industrial (analogue)	all products on the following pages except of those listed below
RS 232	D-10
CANopen	D-20-9, D-10-9
PROFIBUS	D-10-7, IUT-10
HART	IUT-10
Switching output	PSD-10
Accuracy	
0.25 % / 0.5 % / 1.0 %	all products on the following pages except of those listed below
0.1 % / 0.05 %	D-10, D-10-9, D-10-7, IUT-10, P-10, UT-10

Hazardous environments	
Intrinsically safe	IS-20, IL-10, IUT-10
Zone 2/22	N-10
Electrical connection	
Connector, cable	all products on the following pages except of those listed below
Fieldcase	IS-20-F, F-20, IUT-10, UT-10
Temperature range of medium	
-30 ... 100 °C (-22 ... 212 °F)	all products on the following pages except of those listed below
High temperature up to 150 °C (302 °F)	S-11, SA-11, IS-21-S, IS-21-F, F-21, UT-11
Indicator	
Pressure transmitter without indicator	all products on the following pages except of those listed below
Pressure transmitter with indicator	UT-10, PSD-10, DG-10
Digital indicator	A-AI-1, A-IAI-1, A-AS-1, WUR-1, NWUR-1, DI15, DI25, DI30, A-RB-1, DI35
Hydrostatic level measurement	
Level probe	LS-10, LH-10, IL-10
Pressure transmitter with tank linearisation	UT-11, IUT-11
OEM pressure transmitter	
For high-volume	(> 1000 p.a.)
Customer specific solutions	
According to ISO/TS 16949:2002	MH-2, OT-1

Pressure transmitter for industrial applications

Scale of models
30 mm ≈ 100 mm

Designation	Pressure transmitter	Pressure transmitter	Pressure transmitter MicroTronic
Model	S-10 SL-1 (low pressure)	A-10	M-10
Application	mechanical engineering, hydraulics, pneumatics, filter technology, heating, ventilation, air-conditioning	mechanical engineering, pneumatics, hydraulics, compressors, pumps	mechanical engineering in sites with little mounting space, hydraulics, pneumatics
Accuracy (± % of span)	0.25 BFSL* (0.5)** 0.125 BFSL* (0.25)**	0.5 ** 1.0 **	0.25 BFSL* (0.5)**
Pressure ranges gauge pressure absolute pressure	 0...0.025 up to 0...1000 bar -1...0 up to -0.025...0 bar 0...0.25 up to 0...16 bar	 0...1 up to 0...600 bar – 0...1 up to 0...25 bar	 0...16 up to 0...1000 bar – –
Output signal	4...20 mA, 2-wire 0...5 V, 3-wire 0...10 V, 3-wire	4...20 mA, 2-wire 0...5 V, 3-wire 1...5 V, 3-wire 0...10 V, 3-wire 0.5...4.5 V, 3-wire	4...20 mA, 2-wire 1...5 V, 3-wire 0.1...10 V, 3-wire
Optional extras	■ flush diaphragm ■ oxygen version ■ ship approvals	with test protocol	flush diaphragm
Data sheet www.wika.com	PE 81.01 (standard) PE 81.17 (ship approvals) PE 81.36 (low pressure)	PE 81.60	PE 81.25

* BFSL = Best Fit Straight Line
** Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2). Adjusted in vertical mounting position with lower pressure connection.

More detailed information about the individual instruments (different process connections or electrical connections etc.) can be found in the respective data sheets (see also www.wika.com). Further versions of the above mentioned instruments can be delivered on demand.

Scale of models
30 mm ≈ 100 mm

Designation	Pressure transmitter OEM ceramic	Pressure transmitter OEM thinfilm	Pressure transmitter mobile hydraulic
Model	OC-1	OT-1	MH-2
Application	facility management, process, chemical and mechanical engineering, pneumatics	pneumatics, mechanical engineering, automotive industry	mobile hydraulic, mechanical engineering, automotive industry
Accuracy (± % of span)	0.5 BFSL* (1.0)**	0.5 BFSL* (1.0)**	0.5 BFSL* (1.0)**
Pressure ranges gauge pressure absolute pressure	 0...2 up to 0...100 bar – –	 0...6 up to 0...60 bar – –	 0...60 up to 0...600 bar – –
Output signal	4...20 mA, 2-wire 0.1...10 V, 3-wire 0.1...5 V, 3-wire 0.5...4.5 V, 3-wire 0.5...4.5 V, ratiometric	4...20 mA, 2-wire 1...5 V, 3-wire 0...10 V, 3-wire 0.5...4.5 V, ratiometric	4...20 mA, 2-wire 1...5 V, 3-wire 0...10 V, 3-wire 0.5...4.5 V, ratiometric
Optional extras	–	minimum order quantity 300 pieces	■ damping of pressure peaks ■ IP 69K ■ minimum order quantity 300 pieces
Data sheet www.wika.com	PE 81.41	PE 81.42	PE 81.37

* BFSL = Best Fit Straight Line
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Pressure transmitter with Bus interface

Scale of models
30 mm ≈ 100 mm

Designation	Precision transmitter with digital output	Pressure transmitter CANopen	Pressure transmitter CANopen or PROFIBUS-DP	Pressure transmitter UniTrans intrinsically safe
Model	D-10-P	D-20-9	D-10-9 D-10-7	IUT-10-R IUT-10-5
Application	automation engineering, test benches, laboratories, maintenance shops	hydraulics, pneumatics, automation engineering	automation engineering, test benches	process, chemical and mechanical engineering
Accuracy (± % of span)	0.05 BFSL* (0.1)** 0.025 BFSL* (0.05)**	0.5 BFSL* (1.0)** 0.25 BFSL* (0.5)** 0.15 BFSL* (0.3)**	0.05 BFSL* (0.1)**	0.05 BFSL* (0.1)**
Pressure ranges gauge pressure absolute pressure	 0...0.25 up to 0...1000 bar -1...0 up to -0.25...0 bar 0...0.25 up to 0...16 bar	 0...0.25 up to 0...1000 bar -1...0 up to -0.25...0 bar 0...0.25 up to 0...16 bar	 0...0.25 up to 0...1000 bar -1...0 up to -0.25...0 bar 0...0.25 up to 0...16 bar	 0...0.4 up to 0...4000 bar -1...0 up to -1...+15 bar [1)] 0...0.4 up to 0...16 bar
Output signal	RS 232	CANopen protocol acc. to CiA DS-301, Device profile DS-404	CANopen PROFIBUS-DP	4...20 mA, HART PROFIBUS PA
Optional extras	■ flush diaphragm ■ oxygen version ■ communication software „Easy Com“	■ flush diaphragm ■ oxygen version ■ configuration software „Easy Com CANopen“ incl. PCAN-USB-adapter	■ flush diaphragm ■ oxygen version ■ configuration software „Easy Com CANopen“	■ ATEX approval ■ flush diaphragm ■ display ■ oxygen version ■ for food and beverage
Data sheet www.wika.com	PE 81.33	PE 81.39	PE 81.31 CANopen PE 81.30 PROFIBUS-DP	PE 86.02 (4...20 mA, HART) PE 86.03 (PROFIBUS PA)

* BFSL = Best Fit Straight Line
** Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2). Adjusted in vertical mounting position with lower pressure connection.
1) Turn for the whole scale up to 1:20

More detailed information about the individual instruments (different process connections or electrical connections etc.) can be found in the respective data sheets (see also www.wika.com). Further versions of the above mentioned instruments can be delivered on demand.

Scale of models
30 mm ≈ 100 mm

Designation	Pressure transmitter Intrinsically safe	Level probe Intrinsically safe	Pressure transmitter UniTrans intrinsically safe	Pressure transmitter type of protection n
Model	IS-20	IL-10	IUT-10	N-10
Application	chemical, petrochemical, oil and gas refining, mechanical engineering, food and beverage	measuring of filling levels	process, chemical and mechanical engineering	pressure measuring in zone 2 / 22, e. g. flour mills, gas compressors, cement industry
Accuracy (± % of span)	0.25 BFSL* (0.5)** 0.125 BFSL* (0.25)**	0.25 BFSL* (0.5)** 0.125 BFSL* (0.25)**	0.05 BFSL* (0.1)**	0.25 BFSL* (0.5)**
Pressure ranges gauge pressure absolute pressure	 0...0.1 up to 0...8000 bar -1...0 up to -0.1...0 bar 0...0.25 up to 0...16 bar	 0...0.1 up to 0...25 bar -1...0 up to -0.1...0 bar 0...0.25 up to 0...25 bar	 0...0.4 up to 0...4000 bar -1...0 up to -1...+15 bar [1)] 0...0.4 up to 0...16 bar	 0...0.1 up to 0...1000 bar -1...0 up to -0.1...0 bar 0...0.25 up to 0...16 bar
Output signal	4...20 mA, 2-wire	4...20 mA, 2-wire 0...20 mA, 3-wire 0...5 V, 3-wire 0...10 V, 3-wire 0.5...2.5 V, 3-wire	4...20 mA, 2-wire 4...20 mA, HART PROFIBUS PA	4...20 mA, 2-wire 1...5 V, 3-wire
Optional extras	■ flush diaphragm ■ fieldcase version ■ high temperature version ■ high pressure ■ ship approval	■ external battery supply ■ lightning protection ■ in Hastelloy ■ ship approval	■ flush diaphragm ■ display ■ oxygen version ■ for food and beverage	flush diaphragm
Data sheet www.wika.com	PE 81.50 IS-20-S PE 81.50 IS-20-F PE 81.51 IS-20-H PE 81.52 (ship approval)	PE 81.23	PE 86.02 (4...20 mA, HART) PE 86.03 (PROFIBUS PA)	PE 81.26

* BFSL = Best Fit Straight Line
** Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2). Adjusted in vertical mounting position with lower pressure connection.
1) Turn for the whole scale up to 1:20

More detailed information about the individual instruments (different process connections or electrical connections etc.) can be found in the respective data sheets (see also www.wika.com). Further versions of the above mentioned instruments can be delivered on demand.

Pressure transmitter for special applications

Scale of models
30 mm ≈ 100 mm

Designation	Pressure transmitter with fieldcase	Precision transmitter	High pressure transmitter
Model	F-20	P-10	HP-1
Application	food and beverage, pharmaceutical industry, rough environments, mechanical engineering	automation engineering, test benches, laboratories, maintenance shops	test benches, water jet cutting, high pressure cleaning
Accuracy (± % of span)	0.25 BFSL* (0.5)** 0.125 BFSL* (0.25)**	0.05 BFSL* (0.1)** 0.025 BFSL* (0.05)**	0.25 BFSL* (0.5)**
Pressure ranges gauge pressure absolute pressure	 0...0.1 up to 0...1000 bar -1...0 up to -0.1...0 bar 0...0.25 up to 0...16 bar	 0...0.25 up to 0...1000 bar -1...0 up to -0.25...0 bar 0...0.25 up to 0...16 bar	 0...1600 up to 0...8000 bar > 8000 bar on request –
Output signal	4...20 mA, 2-wire 0...20 mA, 3-wire 0...5 V, 3-wire 0...10 V, 3-wire	4...20 mA, 2-wire 0...20 mA, 3-wire 0...5 V, 3-wire 0...10 V, 3-wire	4...20 mA, 2-wire 0...5 V, 3-wire 0...10 V, 3-wire
Optional extras	■ flush diaphragm ■ intrinsically safe	■ flush diaphragm ■ oxygen version ■ configuration software „Easy Com“ ■ calibration of zero point at the transmitter	■ fieldcase version ■ intrinsically safe
Data sheet www.wika.com	PE 81.19 PE 81.50 IS-20-F (intrinsically safe)	PE 81.32	PE 81.29 PE 81.51 IS-20-H (intrinsically safe)

* BFSL = Best Fit Straight Line
** Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2). Adjusted in vertical mounting position with lower pressure connection.

More detailed information about the individual instruments (different process connections or electrical connections etc.) can be found in the respective data sheets (see also www.wika.com). Further versions of the above mentioned instruments can be delivered on demand.

Scale of models
30 mm ≈ 100 mm

Designation	Level probe	Pressure transmitter for food and beverage	Ultra High Purity pressure transducer
Model	LS-10 LH-10	SA-11	WU-10 (Single End) WU-15 (Flow Through) WU-16 (MSM)
Application	hydrostatic level measurement in tanks, rivers, drinking water manholes, bore holes, etc.	pharmaceutical industry, biotechnology, food and beverage	semiconductor industry, microelectronics engineering, gas distribution systems, gas cabinets
Accuracy (± % of span)	0.25 BFSL* (0.5)** 0.125 BFSL* (0.25)**	0.25 BFSL* (0.5)** 0.125 BFSL* (0.25)**	0.25 BFSL* (0.5)**
Pressure ranges gauge pressure absolute pressure	 0...0.1 up to 0...25 bar -1...0 up to -0.1...0 bar 0...0.25 up to 0...25 bar	 0...0.25 up to 0...25 bar -1...0 up to -1...15 bar 0...0.25 up to 0...16 bar	 0...4 up to 0...400 bar -1...3 up to -1...250 bar -
Output signal	4...20 mA, 2-wire 0...20 mA, 3-wire 0...5 V, 3-wire 0...10 V, 3-wire 0.5...2.5 V, 3-wire	4...20 mA, 2-wire 0...20 mA, 3-wire 0...10 V, 3-wire	4...20 mA, 2-wire 0.1...5.1 V, 3-wire 0.1...10.1 V, 3-wire
Optional extras	■ external battery supply ■ lightning protection ■ in Hastelloy	■ various aseptic process connections ■ fieldcase version 3-A 74-03 FDA	■ EEx n acc. to ATEX ■ FM Class I Div 2
Data sheet www.wika.com	PE 81.09 (standard)	PE 81.80	PE 87.05

* BFSL = Best Fit Straight Line
** Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2). Adjusted in vertical mounting position with lower pressure connection.

More detailed information about the individual instruments (different process connections or electrical connections etc.) can be found in the respective data sheets (see also www.wika.com). Further versions of the above mentioned instruments can be delivered on demand.

Digital manometer
Pressure switch
Digital indicators

Scale of models
30 mm ≈ 100 mm

Designation	Digital gauge	Pressure switch	Attachable indicator	Digital indicator for panel mounting
Model	DG-10-S DG-10-E	PSD-10	A-AI-1 (for L-connector) A-IAI-1 (intrinsically safe) A-AS-1 (for circular connect.) WUR-1 (UHP) NWUR-1(UHP, EEx n)	DI15 48 x 24 mm DI25 96 x 48 mm DI30 96 x 96 mm A-RB-1 96 x 48 mm DI35 96 x 48 mm
Application	mechanical engineering, hydraulics/pneumatics, pumps/compressors	hydraulics, pneumatics, filter, pumps, machine tools	connection to pressure transmitter	connection to pressure transmitter
Accuracy (± % of span)	0,5 ± 1Digit	0.5 BFSL* (1.0 ± 1Digit)**	0.2 ± 1 Digit A-AI-,1, A-IAI-1 0.5 ± 1 Digit A-AS-1, WUR-1 NWUR-1	0.2 ± 1 Digit DI15, DI25 0.1 ± 1 Digit DI30 0.05 ± 2 Digit A-RB-1 0.02 ± 1 Digit DI35
Pressure ranges gauge pressure	0...2 up to 0...600 bar	0...25 up to 0...600bar -1...2.5 up to -1...16bar	–	–
Display range	-9999 ... 9999, 11 mm	-999 ... 9999	1999 ... 9999 A-(I)AI-1 -999 ... 6000	-1999 ... 9999 DI15, DI25 -999 ... 9999 DI30 -1999 ... 1999 A-RB-1 -9999 ... 99999 DI35
Display element	7 segment LCD, 11 mm DG-10-E: Second additional display -999 ... 19999 14 segment LCD, 7 mm	LED 4 digits	LCD 4 digits LED 4 digits	LED 4 digits LED 3 ½ digits LED 5 digits
Output signal	–	1 up to 2 switching outputs 4...20 mA, 2-wire	Output signal of pressure transmitter is looped through	0 ... 20 mA 4 ... 20 mA 0 ... 10 V (Model DI25, DI35, A-RB-1)
Optional extras	■ stainless steel case ■ 300° rotatable case (DG-10-E) ■ bar graph display with trailing pointer function	–	–	■ switching function ■ power supply for pressure transmitter ■ pass word protection
Data sheet www.wika.com	PE 81.66	PE 81.13	AC 80.07 model A-(I)AI-1 AC 80.09 model A-AS-1 PE 87.20 model WUR-1 PE 87.21 model NWUR-1	AC 80.01 model DI15 AC 80.02 model DI25 AC 80.05 model DI30 AC 80.04 model A-RB-1 AC 80.03 model DI35

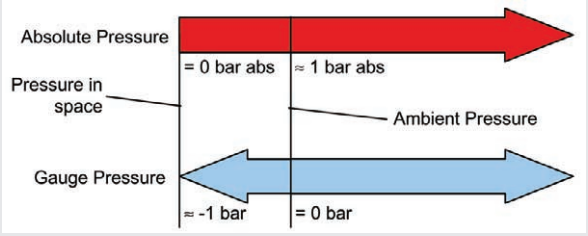
* BFSL = Best Fit Straight Line
** Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2). Adjusted in vertical mounting position with lower pressure connection.

More detailed information about the individual instruments (different process connections or electrical connections etc.) can be found in the respective data sheets (see also www.wika.com). Further versions of the above mentioned instruments can be delivered on demand.

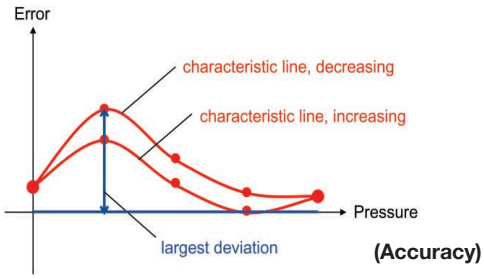
Pressure measuring instruments	
Pressure transmitter	converts pressure into a proportional electrical standardised output.
Pressure switch	senses a change in pressure and opens or closes an electrical switching element when a predetermined pressure point is reached.
Pressure transmitter with Turndown	converts pressure into a proportional electrical standardized output. The pressure ranges are freely scaleable to the output signal, within a predefined range.

Sensor principles	
Metal thin film sensors	for higher pressure ranges, for higher accuracies also, with stainless steel diaphragm, without internal sealing elements, good resistance against pressure peaks.
Piezo-resistive sensors	for lower pressure ranges, for higher accuracies also, with stainless steel diaphragm, without internal sealing elements
Ceramic thick film sensor	for medium pressure ranges, with ceramic diaphragm.

Pressure ranges, pressure types	
Pressure range	is described by the zero point and the full scale value. Within the pressure range the specified error margins are valid.
Zero point	is the lowest pressure value an instrument is adjusted to, e. g. 4 mA.
Full scale value	is the highest pressure value an instrument is adjusted to, e. g. 20 mA.
Over pressure (gauge pressure)	describes the pressure in relation to the actual ambient pressure.
Absolute pressure	describes the pressure in relation to an absolute vacuum.
Conversion factors	1 bar = 14.50 psi 1 bar = 0.1 MPa 1 bar = 1.02 kg/cm^2



Accuracy	
Characteristic line	actual relationship between the measured pressure and the output signal, recorded at increasing and at decreasing pressure. The ideal characteristic curve is a straight line.
Accuracy	largest deviation from an ideal characteristic curve; including non-linearity, hysteresis, zero point and full scale error.
Non-linearity	largest deviation of the averaged characteristic line (average of the characteristic lines at increasing and at decreasing pressure) from a reference straight line.
Reference line for terminal point calibration	runs through the actual zero point and the full scale value.
Reference line for BFSL (Best Fit Straight Line)	is positioned in a way that the maximal deviation to the characteristic line has the smallest possible value.
Hysteresis	largest difference between the characteristic line at increasing and decreasing pressure.
Non-repeatability	largest deviation when the pressure repeatedly reaches the same level, from the same direction.



Output signals	
Output signal	electric signal which is proportional to the pressure range.
■ **Analogue output signals**	are current or voltage signals e. g.: 4...20 mA, 0...10 V, 1...5 V
■ **Digital output signals**	are bus signals e. g.: RS232, CANopen, Profibus

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