

111AL

Dry pressure gauge - bottom connection



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Case / bezel	Black steel
Window	Glass
Internal parts / connection	Brass
Filling	Dry / no liquid filling
Pressure range	On request

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
63	1/4" BSPT	Bottom
100	1/2" BSPT	Bottom

Select range, scale units and accuracy for the ordered configuration. Suitable media must be compatible with brass.

115AL

Glycerin-filled pressure gauge - bottom connection



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Case / crimped bezel	Stainless steel
Window	Polycarbonate (PC)
Internal parts / connection	Brass
Filling	Glycerin
Pressure range	On request

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
63	1/4" BSPT	Bottom
100	1/2" BSPT	Bottom

Glycerin filling does not increase the pressure rating. Select media, temperature, range and accuracy for the application.

123AL

Low-pressure capsule gauge - bottom connection



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Case / bezel	Black steel
Window	Glass
Internal parts / connection	Brass
Measuring principle	Capsule
Pressure range	On request

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
63	1/4" BSPT	Bottom
100	1/2" BSPT	Bottom

For dry gases compatible with copper alloys. Define the measuring range and units before ordering.

213ADJ

Bimetal thermometer - adjustable angle



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Dial diameter options	75, 100 or 150 mm
Case / wetted parts	Stainless steel
Window	Glass
Connection orientation	Adjustable angle
Process connection	1/2 inch; thread standard on request
Stem length options	63, 100 or 150 mm; other lengths on request
Stem diameter options	6 or 8 mm
Accuracy options	1.0% or 1.6%, according to configuration
Temperature range	On request

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
75, 100 or 150 mm	1/2 inch	Adjustable angle

Specify temperature range, stem diameter and insertion length, accuracy, thread and thermowell. Options depend on the ordered configuration.

213BB

Bimetal thermometer - back



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Dial diameter options	63, 75, 100 or 150 mm
Case / wetted parts	Stainless steel
Window	Glass
Connection orientation	Back
Process connection	1/2 inch; thread standard on request
Stem length options	63, 100 or 150 mm; other lengths on request
Stem diameter options	6 or 8 mm
Accuracy options	1.0% or 1.6%, according to configuration
Temperature range	On request

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
63, 75, 100 or 150 mm	1/2 inch	Back

Specify temperature range, stem diameter and insertion length, accuracy, thread and thermowell. Options depend on the ordered configuration.

213BL

Bimetal thermometer - bottom



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Dial diameter options	63, 75, 100 or 150 mm
Case / wetted parts	Stainless steel
Window	Glass
Connection orientation	Bottom
Process connection	1/2 inch; thread standard on request
Stem length options	63, 100 or 150 mm; other lengths on request
Stem diameter options	6 or 8 mm
Accuracy options	1.0% or 1.6%, according to configuration
Temperature range	On request

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
63, 75, 100 or 150 mm	1/2 inch	Bottom

Specify temperature range, stem diameter and insertion length, accuracy, thread and thermowell. Options depend on the ordered configuration.

231AB

Industrial glass thermometer



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Body length options	110, 150 or 200 mm
Case	Aluminum, golden finish
Measuring principle	Liquid-in-glass
Thermowell	Removable; selected to suit process
Process connection	1/2 inch BSP or optional
Wetted material options	Copper alloy / steel / stainless steel; selected to suit temperature
Accuracy	+/-2.5%
Temperature range	On request

AVAILABLE CONFIGURATIONS

Body length (mm)	Connection	Orientation
110 / 150 / 200	Specified with order	Selected configuration

Confirm connection orientation and stem / thermowell dimensions with the order. Process pressure rating depends on the selected thermowell.

231AL

Industrial glass thermometer

Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.



TECHNICAL SPECIFICATION

Body length options	110, 150 or 200 mm
Case	Aluminum, golden finish
Measuring principle	Liquid-in-glass
Thermowell	Removable; selected to suit process
Process connection	1/2 inch BSP or optional
Wetted material options	Copper alloy / steel / stainless steel; selected to suit temperature
Accuracy	+/-2.5%
Temperature range	On request

AVAILABLE CONFIGURATIONS

Body length (mm)	Connection	Orientation
110 / 150 / 200	Specified with order	Selected configuration

Confirm connection orientation and stem / thermowell dimensions with the order. Process pressure rating depends on the selected thermowell.

ACCESSORIES

Pressure and temperature instrument accessories

TECHNICAL SPECIFICATION

AC001 - Syphon	Heat and pulsation protection
AC002 - Snubber	Damping of pressure pulses and peaks
AC003 - Protector	Protection against overpressure
AC004 - Cooling element	Thermal separation of the gauge
AC005 - Thermowell	Protective pocket for temperature stem
AC006 - Adaptor	Adaptation of gauge connections

AVAILABLE CONFIGURATIONS

Model	Accessory	Material / connection
AC001	Syphon tube	Stainless steel or steel
AC002	Pressure snubber	Stainless steel or steel
AC003	Overpressure protector	Stainless steel
AC004	Cooling element	Stainless steel
AC005	Thermowell	Stainless steel; 1/2" or 3/4", M/F
AC006	Thread adaptor	Stainless steel or brass

Dimensions, thread standard, ratings and set points are selected for the ordered configuration. A gauge protector is not a system safety relief valve.

YG201

Universal industrial pressure transmitter



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Output options	4-20 mA; 0-5 V; 0-10 V; RS485; 4-20 mA/HART; 4-20 mA/RS485
Power supply	10-30 VDC; recommended 24 VDC
Accuracy options	0.1%, 0.25% or 0.5% FS
Display options	None / LCD / LED
Process connection options	M20 x 1.5; G 1/2; 1/2 NPT
Case / connection material	SUS304 or SUS316, depending on configuration
Electrical connection options	Hirschmann connector / aviation plug / cable outlet
Ingress protection	IP65
Pressure range	On request
Ambient operating temperature	-40 to +60 deg C

Options are alternatives, not simultaneous features. Confirm output, supply, range, pressure reference, process connection and wetted materials before ordering.

FULL_SS

All-stainless liquid-filled pressure gauge



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Case / bezel	304 stainless steel
Wetted parts / connection	316 stainless steel
Filling options	Glycerin or silicone oil
Pressure range	On request
Window options	Tempered glass or polycarbonate
Ingress protection	IP65

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
Configured to order	Selected connection	Selected orientation

Specifications refer to the 116 family. Confirm the exact variant, dial size, connection, filling and measuring range for the ordered instrument.

MBAR_SS

All-stainless capsule low-pressure gauge



Configured for your application

Measurement range: on request

Available dimensions and materials are listed below. Photograph illustrates the product family; scale and connection follow the ordered configuration.

TECHNICAL SPECIFICATION

Case / bezel	Stainless steel
Wetted parts / connection	Stainless steel
Measuring principle	Capsule
Pressure range	On request, mbar
Connection / dial size	Configured to order

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
Configured to order	Selected thread	Selected orientation

The 123AU family is a documented all-stainless back-connection example. The delivered model and material grade must be confirmed for the order.

DIAPHRAGM

Pressure gauges with diaphragm seals

TECHNICAL SPECIFICATION

Assembly	Pressure gauge and diaphragm seal
Pressure range	On request
Process connection	Configured to order
Body / diaphragm materials	Selected for process compatibility
Filling fluid	Selected for the assembly
Process temperature / rating	Confirmed for selected assembly

AVAILABLE CONFIGURATIONS

Dial diameter (mm)	Connection	Orientation
Configured to order	Selected connection	Selected assembly

Specify medium, operating and maximum pressure, temperature, connection, diaphragm material and gauge orientation. Dimensions and ratings are provided only for the selected assembly.