PAMU

Chemical Pressure Gauge with Integrated Pressure Measuring Transmitter

Features

/ Mechanical and electronic system

/ Independent

/ Display visible from distance

/ Fully stainless steel

/ Optionally Ex-version

Description:

In the PAMU type of devices two parallel systems measure the excrescent pressure at the process connection independent of each other. The first one is a Bourdon pressure gauge of proven stainless steel technology that is intended for clearly legible display of the measurement onsite. In case of high frequent pressure changes, we recommend optionally available silicon oil filling for the device, as this would counteract the quivering of the indicator. At the same time, a pressure measuring transmitter integrated into the housing of the pressure gauge functions as a remote encoder with its 4. . .20 mA 2-wire output and thus enables processing of the measurement in control or other display units.

Application:

Well-tested and long-standing pressure measuring technology in robust design combined with modern electronics, so as to unify the benefits of both the systems into a single device. Right under the roughest conditions of the equipment, the user obtains a measurement directly at the measuring point despite sensitive hi-tech devices and thus will be able to read into the operations in the system even if there is an outage of electrical power. Chemical pressure gauges with an integrated pressure measuring transmitter are used often in the chemical industry as well as in the manufacturing of machines and equipment.

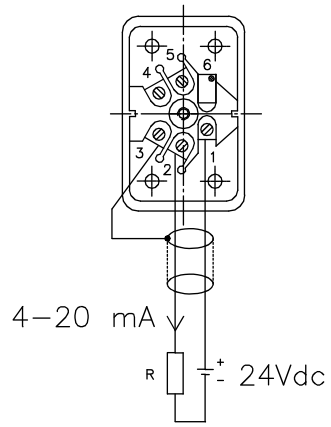
Technical Specifications:

Nominal size /	NG100 (NG160 on request)
Process connection /	Standard G 1/2" B male, CrNi-Steel 1.4571, facing downwards; optional G 1/4" B, 1/2" NPT and 1/4" NPT connections
Damping /	Manometer available with non-conductive insulating oil
Accuracy /	
Manometer:	< 1.0% of full scale value (Class 1.0 as per EN 837-1)
max. Temperature /	
Media temp.:	-40. . .+100°C
Ambient temp.:	-40. . .+60°C
Wetted parts /	AISI, 316 Ti / 1.4571
Dial /	white aluminium, black scale
Pointer /	black aluminium
Housing /	CrNi-steel with blow-out back
Window /	mineral glass
Ring /	bayonet ring, 1.4301
Prot. Class Housing /	IP 65
CE-marking /	pressure equipment directive 2014/68/EU, PS > 200 bar, module A, pressure accessory

Electrical Specs Transmitter:

Supply voltage /	12. . .30 VDC
Nominal voltage /	250 VDC
max. Curent /	16 A
Accuracy /	< 0.5%
Ranges /	-1. . .+0.6 bar to 0. . .600 bar
Output /	4. . .20 mA, 2-Leiter
max. Switch resistance /	≤ (Ub - 9.5 V) / 0.02 A
Connection /	Universal cable connection box Type B, 6-pole, adjustable at 180°
Contacts:	brass, gold plated
Connector type:	**Clamps:** M20 x 1.5 to 1.5 mm², wire protected **Device:** soldered conn. up to 2.0 mm²
Ambient temp. /	-40. . .+85°C
Material /	Polyamide 6
Ex-Version /	on request
EMV /	EN 50 081-1:1992
Protection class /	IP65 as per EN 60529 / IEC 529

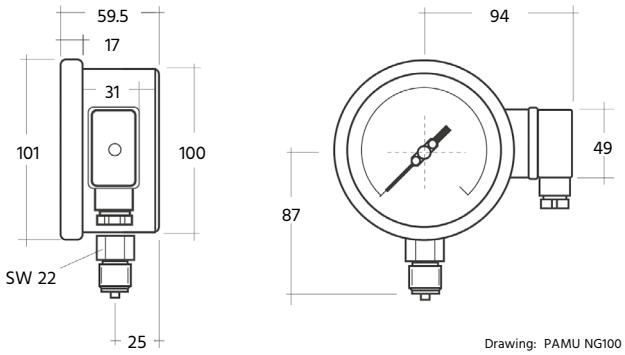
Pin-Assignment Transmitter:



PIN 1 = + 24 VDC
PIN 2 = -
PIN 3 = cable shield
6 = zero point adjustment

address Schleusenstraße 3 | D-27568 Bremerhaven | Germany | **tel** +49 (0)471 98 24 151
fax +49 (0)471 98 24 152 | **mail** info@profimess.de | **web** profimess.com

Dimensions in mm:



Drawing: PAMU NG100

Ordering Codes:

Order number	PAMU.	1.	0.	0.	L

PAMU Chemical Pressure Gauge

Process connection /
1 = G 1/2" B male downwards (standard)
2 = NPT 1/2" male downwards
3 = NPT 1/4" male downwards
4 = G 1/4" B male downwards

Damping /
0 = none
1 = Glycerine filling

Option /
0 = none, standard
1 = oil- and fat-free for oxygen usage
2 = Ex-Version

Operating range /
A = -1. . .0 bar
B = 0. . .1 bar
C = 0. . .1.6 bar
D = 0. . .2.5 bar
E = 0. . .4 bar
F = 0. . .6 bar
G = 0. . .10 bar
H = 0. . .16 bar
I = 0. . .25 bar
J = 0. . .40 bar
K = 0. . .60 bar
L = 0. . .100 bar
M = 0. . .160 bar
N = 0. . .250 bar
O = 0. . .400 bar
P = 0. . .600 bar
Q = -1. . .0.6 bar
R = -1. . .1.5 bar
S = -1. . .3 bar
T = -1. . .5 bar
U = -1. . .9 bar
V = -1. . .15 bar
W = -1. . .24 bar

address Schleusenstraße 3 | D-27568 Bremerhaven | Germany | **tel** +49 (0)471 98 24 151
fax +49 (0)471 98 24 152 | **mail** info@profimess.de | **web** profimess.com