

## HySense® PR 100\*



- Robust and millionfold proven
- Designed for mobile use
- For all Hydrotechnik measuring instruments
- Short response time
- Many pressure ranges
- High-pressure version up to 4,000 bar on request

## Features

Measuring principle	piezo-resistive (pol-cristalline silicon thin film structure on high-grade steel membrane)
Pressure type	relative pressure
Output signal	0 ... 20 mA
Electrical meas. connector	6 pole device plug, M16 x 0.75
Mechanical meas. connector	ISO 228 – G ¼ A
Protection type (EN 60529 / IEC 529)	IP 67 (plugged)
Material casing / membrane	non-corrosive high-grade steel
Weight	~ 85 g

## Technical data

Overload range	1.5 times nominal pressure
Burst pressure	3 times nominal pressure
Mounting orientation	arbitrary
Supply voltage $U_b$	10 ... 30 VDC
Current consumption	6.5 mA
Over-voltage protection	32 VDC
Response time	≤ 1 ms (10 ... 90 %)
Error limit (of final value) <sup>1</sup>	≤ ± 0.25 % (with ISDS, linearised) / ≤ ± 0.5 % (without ISDS)
Medium temperature	-40 ... +125 °C
Environmental temperature	-40 ... +105 °C
Storage temperature	-40 ... +125 °C

Suited for ...	Measuring range		... with ISDS	... without ISDS
all measuring instruments, except MultiHandy 2020	-1 ... 6 bar	-0.1 ... 0.6 MPa	3403-32-S-E5.33	3403-32-C3.33
	0 ... 60 bar	0 ... 6.0 MPa	3403-21-S-E5.33	3403-21-C3.33
	0 ... 200 bar	0 ... 20 MPa	3403-10-S-E5.33	3403-10-C3.33
	0 ... 400 bar	0 ... 40 MPa	3403-15-S-E5.33	3403-15-C3.33
	0 ... 600 bar	0 ... 60 MPa	3403-18-S-E5.33	3403-18-C3.33
MultiHandy 2020	-1 ... 6 bar	-0.1 ... 0.6 MPa	3403-32-S-N4.37	–
	0 ... 60 bar	0 ... 6.0 MPa	3403-21-S-N4.37	–
	0 ... 200 bar	0 ... 20 MPa	3403-10-S-N4.37	–
	0 ... 400 bar	0 ... 40 MPa	3403-15-S-N4.37	–
	0 ... 600 bar	0 ... 60 MPa	3403-18-S-N4.37	–

\*: former product name HT-PD

<sup>1</sup>: at +22 °C; comprises the influences non-linearity, hysteresis, repeatability, zero-point and span error  
Further output signals on request, measuring ranges > 1000 ... 4000 bar (100 ... 400 MPa) on request.

## HySense® PR 300\*



- Fast, highly accurate sensor
- Measures pressures peaks
- Very good noise qualities
- Ideal for Hydrotechnik measuring instruments
- Short response time
- Many pressure ranges

## Features

Measuring principle	piezo-resistive (silicon chip embedded in transmission fluid contained in high-grade steel casing)
Pressure type	relative pressure
Output signal	0 ... 20 mA
Electrical meas. connector	6 pole device plug, M16 x 0.75
Mechanical meas. connector	ISO 228 – G ¼ internal thread
Protection type (EN 60529 / IEC 529)	IP 40
Material casing	1.4104, 1.4301
Material membrane	1.4435
Weight	~ 120 g

## Technical data

Overload range	1.5 times nominal pressure
Burst pressure	2.5 times nominal pressure
Mounting orientation	arbitrary
Supply voltage $U_b$	6.5 ... 30 VDC
Current consumption	< 10 mA
Over-voltage protection	36 VDC
Response time	1 ms (10 ... 90 %)
Error limits (of final value) <sup>1</sup>	$\leq \pm 0.2 \%$ (with ISDS, linearised) / $\leq \pm 0.25 \%$ (without ISDS)
Medium temperature	-20 ... +80 °C
Environmental temperature	-20 ... +80 °C
Storage temperature	-20 ... +85 °C

## Order numbers

Measuring range		... with ISDS	... without ISDS
-1 ... 6 bar	-0.1 ... 0.6 MPa	3403-32-S-71.33A	3403-32-71.33A
0 ... 60 bar	0 ... 6.0 MPa	3403-21-S-71.33A	3403-21-71.33A
0 ... 200 bar	0 ... 20 MPa	3403-10-S-71.33A	3403-10-71.33A
0 ... 400 bar	0 ... 40 MPa	3403-15-S-71.33A	3403-15-71.33A
0 ... 600 bar	0 ... 60 MPa	3403-18-S-71.33A	3403-18-71.33A

\*: former product name PR 15

1: at +22 °C; comprises the influences non-linearity, hysteresis, repeatability, zero-point and span error  
Further output signals on request, measuring ranges > 1000 ... 4000 bar (100 ... 400 MPa) on request.