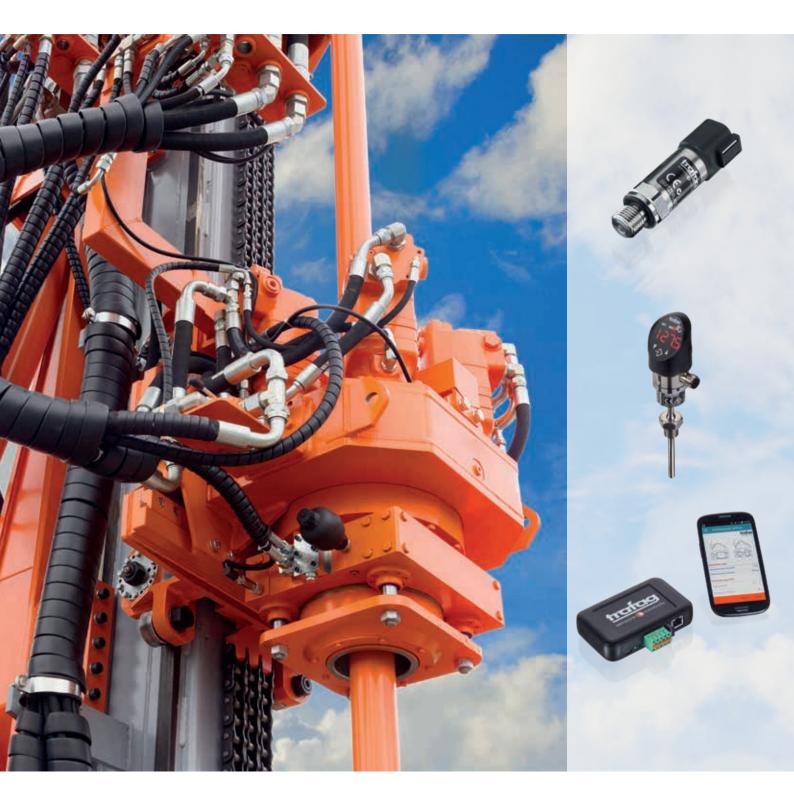


Hydraulics

Pressure switches - Pressure transmitters - Thermostats





Pressure and temperature monitoring for hydraulic applications

Applications in mobile and stationary hydraulics demand the highest robustness and reliability from sensors. Trafag pressure transmitters are used in applications from high-accuracy test benching to heavy construction and agricultural equipment. They are proven for long-term stability in extremely harsh environments: from the dusty heat of deserts to the icy cold of sub-arctic forests. The reliable pressure transmitters with exceptionally long-term stability are also highly praised in stationary hydraulics, helping to avoid costly production interruptions.

Agricultural and forestry machines

Tractors, harvesting machines, transport machines

Renewable energies

Rotor control in wind power plants, solar tracking in photovoltaic systems

Construction machines

Excavators, mobile cranes, concrete pumps and mixers

Communal and special vehicles

Garbage collection, heavy transporters, firefighting vehicles

Test and inspection installations

Injection moulding machines, forming presses, stretch-blow machines

Test and inspection installations

Chassis test benches, material inspection systems, inspection of hydraulic components

Hydraulic components and subsystems

Valve block systems, power packs, tank monitoring





Products overview

Pressure transmitters



NAT 8252 8 **Industrial Pressure Transmitter**

Compact and robust all-rounder with many design variants and options. First choice for standard applications with M12x1 electric connections, Industrial Standard, or Deutsch DT04-3pole/-4pole.



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NAH 8254 Pressure Transmitter with increased accuracy

For applications demanding increased precision or standard applications at elevated operating temperatures.

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NAI 8273 IO-Link Pressure Transmitter and Switch

Measures pressure and temperature, accuracy class up to 0.3%. With IO-Link and PNP/NPN switching output.



ESH 8845

High-Accuracy Pressure Transmitter Accuracy up to 0.05% for test and



Precision Pressure Transmitter

NAH 8253

For applications requiring high precision or absolute pressure together with high long-term stability. Optionally available with increased electric strength of 500 VAC.



measurement applications. Optional: flush membrane version.



EPI 8287 12

Robust all-rounder with many design variants and options. First choice for standard applications with electric connection EN 175301-803-A or with AISI316L steel housings.

Industrial Pressure Transmitter



EPN/EPNCR 8298 **Engine Pressure Transmitter**

For high pressures up to 2500 bar.



FCT 8472

Industrial Pressure Transmitter

Where absolute pressure measurement is required or in contact with corrosive media. Housing options in various steel variants or titanium.



ECT 8473

Industrial Pressure Transmitter with increased accuracy

For low pressure applications, absolute pressure measurements with increased precision and in contact with corrosive media.



CMP 8271

CANopen Miniature Transmitter

Compact and robust all-rounder with many design variants and options. First choice for standard applications with CANopen.



CMP 8270

CANopen High-Accuracy Pressure

Transmitter

High accuracy up to 0.1 %, absolute and relative pressure measurement, integrated media temperature measurement.



Pressure transmitters



NAH 8254 20 kHz Pressure Transmitter for highly dynamic pressure curves For measuring highly dynamic pressure curves and short-term pressure peaks with a signal cut-off frequency up to 20 kHz.



FPT 8236
Flush Membrane Transmitter
For applications with viscous, corrosive or clogging media, with analogue output.



FPI 8237
Flush Membrane Transmitter
with IO-Link
For applications with viscous, corrosive,
or clogging media, integrated media
temperature measurement, with IO-Link
output.

Level measurement



ECL 8439
Submersible Pressure Transmitter
Level probe for hydrostatic measurement from 0.1 to 2 bar, measurement ranges configurable using smartphone app.



NAL 8838
Submersible Pressure Tansmitter
Level probe for specific applications
which require high accuracy or with
corrosive media.



Level Switch with DisplayFor liquid level up to 2000 mm, with display and NFT communication for parametrizing via smartphone app.

DLF 8980

TFS



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TFC
Float Level Sensor
Float sensor for measurement
of levels up to 2000 mm.



Float Level Switch
Float level switch with up to 6 switchpoints
and optional temperature measurement.



TOS
Optical Level Switch
Optical level switch for simple
and cost-effective limit detection.



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Products overview

Electronic pressure switches and pressure transmitters



NAI 8273 IO-Link Pressure Transmitter and Switch Measures pressure and temperature, accuracy class up to 0.3%. With IO-Link and

PNP/NPN switching output.



DPS 8381 16 **Pressure Switch with Display** and steel sensor First choice for pressure measurement with display. Continuous analogue signal as well as 1 to 2 switch outputs can be parametrised with app via NFC.



DPC 8380 17 Pressure Switch with Display and ceramic sensor For applications with absolute pressure measurement, low pressures or contact with corrosive media. Continuous analogue

signal as well as 1 to 2 switch outputs can be

parameterised with app via NFC.

PICOSTAT 9R5

Mechanical pressure switches



PICOSTAT 9B4 22 **Pressure Switch** with bellows sensor For low pressure ranges and pulse-free pressure curves. Gas-tight variants available.



Mechanical Pressure Switch Electromechanical Pressure Switch with one microswitch in stainless steel housing.

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PICOSTAT 9K4 **Pressure Switch** with piston sensor For high pressure ranges and pressure curves with pulsations.



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PICOSTAT 9M4 23 **Pressure Switch** with membrane sensor For medium pressure ranges and pressure curves with pulsations.

Temperature measurement and monitoring



DTP 8180 Display Temperature Switch and Transmitter Electronic temperature transmitter and switch with display. Continuous analogue signal as well as 1 to 2 switch outputs can be parametrised with app via NFC.



25 ISP/ISPT 474 **Compact Thermostat** Thermostat in block construction with switch output.

Accessories



SMI 26 Sensor Master Interface For the configuration of the electronic pressure switches NAT 8252 and NAH 8254, and level sensor ECL 8439.



SC

Sensor Communicator
For the configuration of the pressure transmitter NAH 8253, EPN/EPNCR 8298, CMP 8270, and electronic pressure switch EPN-S 8320.

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THP... 27
Hand Pump
For testing transmitter and switch pressures.
With high accuracy electronic manometers.



V6/V7 27
Stop Valve
Stop valve for exchanging pressure
transmitters without process interruption.





Sensor technology

Key components of Trafag's pressure transmitters are pressure sensors based on thin-film-on-steel technology (welded design without O-ring) or thick-film-on-ceramic technology. Both sensor technologies come from Trafag's own production and were developed in-house as well as with the ASIC application-specific microchip.

As a result, pressure sensors and electronics work in perfect unison and achieve a unique level of long-term stability and reliability, even under the most adverse environmental conditions.





NAT 8252

Industrial Pressure Transmitter



Setting the switching points



Sensor Master Interface (SMI)

More information on page 26

Sensor Master Communicator (SMC)



Fast and easy operation via Android or Windows App "Sensor Master Communicator" (SMC)

- Smallest design
- Completely welded steel sensor system without additional seals
- Excellent long-term stability
- Optional: 5-fold overpressure resistance
- Optional: Switching output 1 or 2 PNP

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0 2.5 to 0 700 bar 0 30 to 0 10000 psi 4 20 mA, 0 5 VDC, 1 5 VDC, 1 6 VDC, 0 10 VDC and more,
4 20 mA, 0 5 VDC, 1 5 VDC, 1 6 VDC, 0 10 VDC and more,
1 5 VDC, 1 6 VDC, 0 10 VDC and more,
0 10 VDC and more,
· · · · · · · · · · · · · · · · · · ·
0.5 4.5 VDC ratiometric
± 0.5 % FS typ.
-40°C +125°C
-40°C +125°C

Data sheet

www.trafag.com/H72303

NAH 8254

Pressure Transmitter with increased accuracy



- Measuring accuracy 0.3 %
- Completely welded steel sensor system without additional seals
- Excellent long-term stability
- Optional: 5-fold overpressure resistance

Measuring principle	Thin-film-on-steel
Measuring range	0 0.2 to 0 700 bar
	0 3 to 0 10000 psi
Output signal	4 20 mA, 0 5 VDC,
	1 5 VDC, 1 6 VDC,
	0 10 VDC and more,
	0.5 4.5 VDC ratiometric
Accuracy @ 25°C typ.	± 0.3 % FS typ.
Media temperature	-40°C +125°C
Ambient temperature	-40°C +125°C

NAI 8273

IO-Link Pressure Transmitter and Switch



IO-Link

- Pressure measuring accuracy 0.3 %, 0.5 %
- Media and device temperature measurement
- Excellent long-term stability
- 2 Switching outputs PNP/NPN configurable
- Optional: 5-fold overpressure resistance

Measuring principle	Thin-film-on-steel
Measuring range	-0.2 0.2 to 0 700 bar
Output signal	IO-Link 1.1, COM3, min. process cycle time 1 ms, Smart Sensor Profile ED2 2 Switching outputs PNP/NPN
Accuracy @ 25°C typ.	± 0.5 % FS typ. ± 0.3 % FS typ.
Media temperature	-40°C +125°C
Ambient temperature	-40°C +105°C
Data sheet	www.trafag.com/H72621



NAH 8253

Precision Pressure Transmitter





Parametrisation via Sensor Communicator (SC) More information on page 26

- Smallest design
- Accuracy classes 0.1 %, 0.15 %, 0.3 %
- Excellent temperature resistance
- Relative and absolute pressure measurement
- Optional: Dielectric strength 500 VAC, meets EN 50155 (Railways)

Technical Data	
Measuring principle	Thin-film-on-steel
Measuring range	0 2.5 to 0 600 bar
	0 30 to 0 7500 psi
Output signal	4 20 mA, 0 5 VDC,
	1 6 VDC, 0 10 VDC,
	0.5 4.5 VDC ratiometric
Accuracy @ 25°C typ.	± 0.3 % FS typ.
	± 0.15 % FS typ.
	± 0.1 % FS typ.
Media temperature	-40°C +125°C
Ambient temperature	-40°C +125°C
Data sheet	www.trafag.com/H72300

ESH 8845

High-Accuracy Pressure Transmitter



- Accuracy up to 0.05 % FS
- Versions with frontal or with flush diaphragm
- Media temperature to 125°C
- EMC protection, IEC 61000

Measuring principle	Piezoresistive
Measuring range	0 0.1 to 0 100 bar
Output signal	4 20 mA, 0 5 VDC, 0 10 VDC
Accuracy @ 25°C typ.	0.5 % FS
Media temperature	-40°C +125°C
Ambient temperature	-40°C +125°C
Data sheet	www.trafag.com/H72354

NAH 8254

Pressure Transmitter for highly dynamic pressure curves

Based on the proven industrial and mobile NAH 8254 hydraulics transmitter in the miniature HEX19 size, Trafag offers special versions allowing the desired cut-off frequency to be selected from various levels over 20 kHz (corresponding to 18 µs rise time, 10...90 % nominal pressure) for highly dynamic pressure measurements, down to 11 Hz for maximum signal smoothing. The fast electronics based on Trafag's own mixed-signal chip can reproduce even

high-frequency pressure gradients without distortion, regardless of sampling rates. Both the thin-film-on-steel sensor element and basic design of the transmitter have been proven under extreme conditions (vibration, shock, temperature change, high pressure peaks, etc) in the harsh construction and forestry machinery environments and guarantee unsurpassed robustness and reliability in the measurement and testing field.

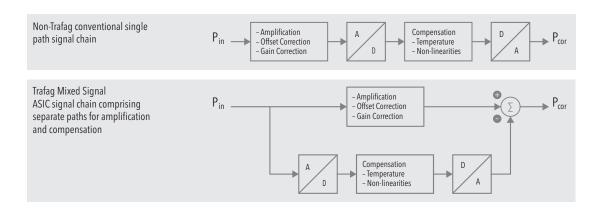


For more information about measuring highly dynamic pressure curves, see our whitepaper www.trafag.com/H70350

- · Cut-off frequency 20 kHz
- For highly dynamic pressure curves
- Analogue signal processing
- Measuring accuracy 0.3 %
- Excellent long-term stability

Thin-film-on-steel
0 0.2 to 0 700 bar 0 3 to 0 10000 psi
4 20 mA, 0.5 4.5 VDC ratiometric
± 0.3 % FS typ.
-40°C +125°C
-40°C +125°C

Data sheet www.trafag.com/H72304



Schematic design of Trafag ASIC TX

The conventional (non Trafag) design with fully digital signal processing is limited by the speed of the A/D or D/A converter. The Trafag design consists of two signal components. The main path (about 98 % of the signal) experiences purely analogue amplification with zero-point and span correction and therefore very fast. Only the correction signals (temperature and non-linearities) are

digitally processed and comparatively slow. This is not time-sensitive since temperature changes also exhibit response times in the minute range. Only the non-linearities correction is time relevant, which in the case of Trafag sensors makes up only about 1 % of the signal. Therefore, only about 1 % of the signal depends on the speed of the A/D or D/A converter.



EPI 8287

Industrial Pressure Transmitter



- Excellent long-term stability
- Completely welded steel sensor system without additional seals
- Accuracy classes 0.3%, 0.5%
- Optional: 5-fold overpressure resistance
- Optionally with housing material AISI316L

Technical Data	
Measuring principle	Thin-film-on-steel
Measuring range	0 2.5 to 0 700 bar 0 30 to 0 10000 psi
Output signal	4 20 mA, 0 5 VDC, 0.5 5 VDC, 1 6 VDC, 0 10 VDC, 0.5 4.5 VDC ratiometric
Accuracy @ 25°C typ.	± 0.5 % FS typ. ± 0.3 % FS typ.
Media temperature	-40°C +125°C
Ambient temperature	-40°C +125°C
Data sheet	www.trafag.com/H72317

EPN/EPNCR 8298

Engine Pressure Transmitter



Parametrisation via Sensor Communicator (SC) More information on page 26

www.trafag.com

- Nominal pressure up to 2500 bar
- High vibration resistance
- Different accuracy classes
- Completely welded steel sensor system without additional seals

Measuring principle	Thin-film-on-steel
Measuring range	0 2.5 to 0 2500 bar
Output signal	4 20 mA
	0.5 4.5 VDC ratiometric
Accuracy @ 25°C typ.	± 0.5 % FS typ.
	± 0.3 % FS typ.
Media temperature	-40°C +125°C
Ambient temperature	-40°C +125°C

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ECT 8472

Industrial Pressure Transmitter



- Excellent media compatibility
- Relative or absolute pressure measurement
- Titanium version optional
- Wide temperature range

Technical Data	
Measuring principle	Thick-film-on-ceramic
Measuring range	0 1 to 0 400 bar
	0 15 to 0 5000 psi
Output signal	4 20 mA, 0 5 VDC,
	1 6 VDC, 0 10 VDC,
	0.5 4.5 VDC ratiom.
Accuracy @ 25°C typ.	± 0.5 % FS typ.
Media temperature	-25°C +125°C
Ambient temperature	-25°C +125°C
Data sheet	www.trafag.com/H72324

ECT 8473

Industrial Pressure Transmitter with increased accuracy



- Measuring ranges from 100 mbar
- Excellent media compatibility
- Relative or absolute pressure measurement
- Titanium version optional
- Frontal membrane optional

Measuring principle	Thick-film-on-ceramic
Measuring range	0 0.1 to 0 40 bar
	0 1.5 to 0 500 psi
Output signal	4 20 mA, 0 5 VDC,
	1 6 VDC, 0 10 VDC,
	0.5 4.5 VDC ratiom.
Accuracy @ 25°C typ.	± 0.3 % FS typ.
Media temperature	-25°C +125°C
Ambient temperature	-25°C +125°C



FPT 8236

Flush Membrane Transmitter



- Flush membrane with smooth and plain surface
- Membrane in Duplex steel 1.4462
- Completely welded sensor system
- Excellent long-term stability

Technical Data	
Measuring principle	Thin-film-on-steel
Measuring range	0 1 to 0 100 bar
	0 15 to 0 1500 psi
Output signal	4 20 mA, 0 5 VDC,
	1 6 VDC, 0 10 VDC,
	0.5 4.5 VDC ratiometric
Accuracy @ 25°C typ.	± 0.5 % FS typ.
Media temperature	-10°C +125°C
Ambient temperature	-10°C +125°C
Data sheet	www.trafag.com/H72343

FPI 8237

IO-Link Pressure Transmitter and Switch



- Flush membrane with smooth and plain surface, Duplex steel 1.4462
- Media temperature measurement
- Completely welded sensor system
- Excellent long-term stability

Measuring principle	Thin-film-on-steel
Measuring range	-0.5 0.5 to 0 100 bar correlating with -14.5 14.5 to 0 1450 psi
Output signal	4 20 mA, 0 5 VDC, 1 6 VDC, 0 10 VDC, 0.5 4.5 VDC ratiometric
Accuracy @ 25°C typ.	± 0.5 % FS typ.
Media temperature	-10°C +125°C
Ambient temperature	−10°C +125°C
Data sheet	www.trafag.com/H72622

CMP 8271

CANopen Miniature Transmitter



- Small and rugged construction
- CANopen bus protocol DS301/DS404 supports CAN 2.0A/B
- LSS (DS 305 V2.0)
- Optional: 5-fold overpressure resistance

Measuring principle	Thin-film-on-steel
Measuring range	0 2.5 to 0 700 bar
	0 30 to 0 10000 psi
Output signal	Bus protocol CANopen DS404
Accuracy @ 25°C typ.	± 0.5 % FS typ.
	± 0.3 % FS typ.
Media temperature	-40°C +125°C
Ambient temperature	-40°C +125°C

CMP 8270

CANopen High-Accuracy Pressure Transmitter



- Small and rugged construction
- Different accuracy classes
- Measurement of pressure and temperature
- CANopen bus protocol DS301/DS404 supports CAN 2.0A/B
- LSS (DS 305 V2.0)

Measuring principle	Thin-film-on-steel, piezoresistive
Measuring range	0 0.2 to 0 600 bar 0 3 to 0 7500 psi
Output signal	Bus protocol CANopen DS404
Accuracy @ 25°C typ.	± 0.5 % FS typ. ± 0.3 % FS typ. ± 0.15 % FS typ. ± 0.1 % FS typ.
Media temperature	-50°C +135°C
Ambient temperature	-40°C +125°C

Data sheet



DPS 8381

Pressure Switch with Display and steel sensor





Fast and easy parametrisation via Android App



More information see below

- Parametrisation also via NFC-smartphone App (Android)
- Display and electrical connection are independently rotatable 335°/343°
- Analogue output switchable mA or V
- Integrated data logger
- Measuring range adjustable

Technical Data	
Measuring principle	Thin-film-on-steel
Measuring range	0 2.5 to 0 600 bar 0 30 to 0 7500 psi adjustable
Output signal	4 20 mA, 0 5 VDC, 1 6 VDC, 0 10 VDC, switchable mA or V
Switching output	2 PNP
Accuracy @ 25°C typ.	± 0.5 % FS typ.
Media temperature	-25°C +85°C
Pressure unit for display	bar, psi, MPa, kPa, mWC, mmWC, inchWC, %, user scale
Logger	Ring buffer: 3518 data points Sampling time: 0.1 999.9 s, Off (0)
Data sheet	www.trafag.com/H72321

Parametrisation with the Trafag-App "Sensor Master"

With the free Android app "Sensor Master", available in the Google Play Store, the parameters of the Trafag display pressure switches DPS 8381, DPC 8380 and the display temperature switch DTP 8180 and display level switch DLF 8980 can be set very simply through a smartphone. In addition to a variety of parameters for the switchpoints,

the measurement range can be scaled. Communication is conducted via the NFC interface on the display. Via this interface, the measured values of the internal data logger can be read out via smartphone, analysed and exported for further processing.

DPC 8380

Pressure Switch with Display and ceramic sensor





Fast and easy parametrisation via Android App



More information on page 16

- Parametrisation also via NFC-smartphone App (Android)
- Display and electrical connection are independently rotatable 335°/343°
- Analogue output switchable mA or V
- Integrated data logger
- Pressure range adjustable

Massuring principle	Thick-film-on-ceramic
Measuring principle	
Measuring range	0 0.2 to 0 100 bar
	0 2.5 to 0 1500 psi
	adjustable
Output signal	4 20 mA, 0 5 VDC,
	1 6 VDC, 0 10 VDC,
	switchable mA or V
Switching output	2 PNP
Accuracy @ 25°C typ.	± 0.5 % FS typ.
	± 0.3 % FS typ.
Media temperature	-25°C +85°C
Pressure unit for display	bar, psi, MPa, kPa, mWC,
	mmWC, inchWC, %, user scale
Logger	Ring buffer:
33	3518 data points
	Sampling time:
	0.1 999.9 s, Off (0)
Data sheet	www.trafag.com/H72320





ECL 8439

Submersible Pressure Transmitter



Configuration of measurement ranges



Sensor Master Interface (SMI) More information see below

- Also suitable for thick and viscous media
- Different materials for optimum media compatibility
- Configurable measuring ranges
- Optional: Enhanced lightning protection

0 0.1 to 0 6.0 bar
0 1.5 to 0 100 psi
4 20 mA
± 0.3 % FS typ.
Range 0 0.1 to 0 0.2 bar:
± 0.5 % FS typ.
max25°C +70°C
max25°C +70°C

Configuration of measuring range

Sensor Master Interface (SMI)



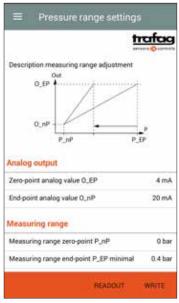
More information on page 26

Sensor Master Communicator (SMC)



Fast and easy operation via Android or Windows App "Sensor Master Communicator" (SMC)





NAL 8838

Submersible Pressure Tansmitter



- Pressure ranges from 100 mbar
- Cable PUR or FEP
- Option: Chemical resistant material, in titanium
- Option: Lightning protection (IEC 61000-4-5)

. 25 bar
0.1%
)

DLF 8980Level Switch with Display







More information on page 16

- Parametrisation also via NFC-smartphone App (Android)
- Display and electrical connection are independently rotatable 335°/343°
- Analogue output switchable mA or V
- Integrated data logger
- Measuring resolution 5, 10, 20 mm

Technical Data	
Measuring principle	Magnetic float with reed contacts
Measuring range	Max. level 2000 mm, Resolution of 5, 10 or 20 mm
Output signal	4 20 mA, 0 5 VDC, 1 6 VDC, 0 10 VDC, switchable mA or V
Switching output	2 PNP
Media temperature	max30°C +105°C -30°C +90°C PP floats -30°C +60°C PVC floats
Ambient temperature	-30°C +85°C
Pressure unit for display	mm, inch, user scale, % FS
Data sheet	www.trafag.com/H72450



TFC

Float Level Sensor



- Measuring resolution 5, 10, 20 mm
- Various float and stem material available
- Optional : Temperature sensor PT1000
- Protection IP65

Technical Data	
Measuring principle	Magnetic float with reed contacts
Measuring range	Max. level 2000 mm, Resolution 5, 10 or 20 mm
Output signal	4 20 mA, 0 5 VDC, 0 10 VDC
Media temperature	Up to 150°C
Data sheet	www.trafag.com/H20040

TFSFloat Level Switch



- Protection IP65
- Optional: Temperature sensor PT1000 or thermostat
- Potted electrical contacts

Technical Data	
Measuring principle	Magnetic float with reed contacts
Measuring range	Max. level 2000 mm
Output signal	Up to 6 switching contacts
Media temperature	Up to 180°C
Data sheet	www.trafag.com/H20041

TOS **Optical Level Switch**



- No moving parts
 Hermetic construction, sealed electronics
 Minimum degree of protection IP65

Measuring principle	Infrared transceiver
Measuring range	Working pressure max. 260 bar
Output signal	PNP or NPN transistor
Media temperature	-40 +85°C





PICOSTAT 9B4

Pressure Switch with bellows sensor



- Improved vibration resistance
- For low pressure ranges
- High repeatability

Technical Data	
Measuring principle	Bellows
Measuring range	-0.6 3.4 to 4 40 bar -8 45 to 60 500 psi
Output signal	1 Floating change-over contact (SPDT)
Switching differential	Not adjustable
Repeatability	± 0.5 % FS typ.
Media temperature	-40°C +125°C
Data sheet	www.trafag.com/H72367

PICOSTAT 9R5

Pressure Switch with stainless steel bellows sensor



- Stainless steel housing
- Stainless steel bellows sensor, welded
- High repeatability
- Rugged housing
- Meets EN 50155 (Railway)

Technical Data	
Measuring principle	Steel bellows welded
Output signal	1 Floating change-over contact (SPDT)
Switching differential	Not adjustable
Media temperature	-40°C +85°C
Data sheet	www.trafag.com/H72370

PICOSTAT 9K4

Pressure Switch with piston sensor



- High pressure ranges
- Robust even with pulsating pressure curves

Technical Data	
Measuring principle	Piston
Measuring range	1 10 to 40 400 bar 14 150 to 580 5800 psi
Output signal	1 Floating change-over contact (SPDT)
Switching differential	Not adjustable
Repeatability	± 1.0 % FS typ.
Media temperature	-25°C +125°C
Data sheet	www.trafag.com/H72369

PICOSTAT 9M4

Pressure Switch with membrane sensor



- For medium pressure ranges
- Robust even with pulsating pressure curves

Technical Data	
Measuring principle	Membrane
Measuring range	1 10 to 10 100 bar 14 150 to 150 1500 psi
Output signal	1 Floating change-over contact (SPDT)
Switching differential	Not adjustable
Repeatability	± 2.0 % FS typ.
Media temperature	0°C +80°C
Data sheet	www.trafag.com/H72368



DTP 8180

Display Temperature Switch and Transmitter





Fast and easy parametrisation via Android App



More information on page 16

- Parametrisation also via NFC-smartphone App (Android)
- Display and electrical connection are independently rotatable 335°/343°
- Analogue output switchable mA or V
- Integrated data logger
- Temperature range adjustable

Technical Data	
Measuring principle	PT 1000, DIN EN 60751 class A,
	2 conductors
Measuring range	-50°C +150°C /
	-58°F 302°F
Output signal	adjustable 50 100 % FS 4 20 mA, 0 5 VDC,
output signal	1 6 VDC, 0 10 VDC,
	switchable mA or V
Switching output	2 PNP
Accuracy @ 25°C typ.	± 0.5 % FS typ.
	+ temperature sensor error
Temperature unit for display	°C, °F, K, user scale
Logger	Ring buffer:
	3518 data points
	Sampling time:
	0.1 999.9 s, Off (0)
Data sheet	www.trafag.com/H72352

ISP/ISPT 474

Picostat Thermostat



- Compact designRugged housingHigh repeatabilityProtection IP65

Measuring range	+5°C +95°C to +20°C +150°C
Output signal	Floating change-over contact
Switching differential	Not adjustable
Repeatability	± 1 % FS typ.

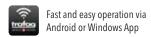




SMI

Sensor Master Interface













- Read out of sensor data
- Parametrisation of switching points on NAx pressure switches
- Measurement range adjustment on Submersible Pressure Transmitter ECL 8439
- Fast and easy operation via Android App "Sensor Master Communicator SMC"
- Reset pressure measurement instruments to factory settings

Technical Data	
Ambient temperature	0°C +40°C
Supply voltage	5 VDC, ±0.25, 1 A (Supply via USB interface)
Protection	IP20
Storage temperature	-10°C +50°C
Dimensions	LxWxH: 120x76x27 mm
Communication SMC/SMI	Via Bluetooth LE (Android) or LAN/RJ45 (Windows)
Operation Interface	Via Android or Windows App "Sensor Master Communicator SMC"
Data sheet	www.trafag.com/H72618

SCSensor Communicator



- Read out sensor data
- Adjustment of zero point and span
- Real time pressure measuring
- Software update and battery charge with USB-interface

Technical Data

- Identification of device data: Model, signal output, type plate, manufacturing date
- Setting of switchpoint (8320 EPN-S)
- CANopen: Setting of Node-ID and baudrate
- Reset to factory settings

Instruction

www.trafag.com/H73699

THP... Hand Pump

THP30

• For testing pressure transmitters and pressure switches

Technical Data		
Connection	G1/4" female	

Product No.	Range [bar]	
THP30	-0.85 + 25	
THP700	0 700, Resolution 0.2 bar	

V6/V7 Stop Valve





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• Allows replacement of instruments without process interruption (max. 40 bar)

Technical Data	
Material	1.4305 / FKM
Pressure	max. 600 bar
Media temperature	-25°C +125 °C

Data sheet www.trafag.com/H72258

Proc	luct No.	Connection
V6	For water, air, light-crude, heavy oil	G1/2" male G1/4" female
V7	For water, air, light-crude, heavy oil	G1/4" male G1/4" female



Reliable quality



Subject to change 09/2022 H70187d

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