

COMECO Inc., Plovdiv 4000, BULGARIA, tel: +359 32 646 523, +359 32 646 524,
fax: +359 32 634 089 e-mail: info@comeco.org, WWW.COMECOGROUP.COM

HIGH-PRESSURE INDUSTRIAL TRANSMITTER

PSH

OPERATION MANUAL



Please read this Operation Manual before mounting and operating!
Save the Manual for future references!



Important note:

If the medium temperature is higher than the maximum, specified for your transmitter, mount an additional cooling spiral tube between the object and the transmitter in order to decrease the medium temperature at the transmitter input.

Mark	Description	Terminal No.	Wire color
Is+	current loop (+)	3	
Is-	current loop (-)	2	
PE	shield (sheath)	⧻	

Mark	Description	Terminal No.	Wire color
VS+	supply (+V)	1	
VS-	supply (0V)	2	
Vout	output	3	
PE	shield (sheath)	⧻	

Mounting

- ◆ Screw the PSH transmitter to its exact place using a preinstalled bush with a female/male thread matching the transmitter's one (M16, M18, etc.).
- ◆ To ensure hermetical mounting, use a proper gasket (e.g. DIN16258).
- ◆ The right tightening torque depends on the gasket material and shape as well as on the mounting thread.
- ◆ For mounting, use ONLY a proper hexagonal wrench applying the torque ONLY to the hexahedral transmitter head!
- ◆ The installation site must be protected from deep-freezing and high-temperature sources, and all environmental conditions must be within those, specified for your transmitter type (see 'Specifications').

Wiring

Connect the transmitter via its cable wires or connector by following the markings as disclosed in the respective table on the left.



Important note:

In case of current output, the supply voltage must be greater than the required minimum (marked on the label) plus the load voltage drop at 20 mA!



The undersigned hereby declares, on behalf of COMECO Inc., that this device has been manufactured in compliance with standards EN 61000, EN 61010, and EN 61326, and meets the requirements of Directives 2014/30/EU, 2014/35/EU, and 2011/65/EU.

A handwritten signature in black ink, appearing to read 'K. Darakchiev'.

Krasimir Darakchiev, CEO
COMECO Inc.

Waste Disposal

*Do not dispose of
electronic devices
together with
household waste
material!*

If disposed of within European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive 2012/19 on the Waste Electrical and Electronic Equipment.

Variant	☐ '1', ☐ '2'
Pressure Range	☐ 0...1600 bar, ☐ 0...2000 bar, ☐ 0...2500 bar, ☐ 0...3000 bar, ☐ 0...4000 bar
Output Signal	☐ 4...20 mA, 2-wire, ☐ 0...20 mA, 3-wire, ☐ 0...5 V, ☐ 1...5 V, ☐ 0...10 V, ☐ 0.5...4.5 V, ☐
Power Supply U_B	☐ 10...32 VDC, ☐ 12...32 VDC, ☐
Voltage Deviation	less than $\pm 5\%$ at 50/60 Hz
Maximum Line Load	$R_A[\Omega] = (U_B[V] - 10 V) / 0.02 A$
Medium / Ambient Temperature	-40...125 °C / -40...105 °C
Accuracy	☐ 1%, ☐ 0.5%, ☐ 0.25%
Repeatability	$\leq 0.1\%$
Temperature Drift	$\leq 0.03\%/^{\circ}\text{C}$ within -20...85 °C
Electrical Connection	☐ DIN 43650, ☐ DIN 43650C, ☐
Process Connection	☐ M18x1.5 M, ☐ M16x1.5 F, ☐

Warranty and Support

Warranty

COMECO warrants this product to be free from defects in materials and workmanship for 6 months. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see '**Specifications**').

Service and Maintenance

The PSH transmitter does not need any maintenance! It does not contain any controls or components requiring customer adjustment.

In accordance to the specific operating conditions and customer country regulations, the installed PSH transmitter has to be tested regularly (at least once a year), at a specialized laboratory, for accuracy and other important specification coverings.

All service works must be performed **ONLY** by the manufacturer! In the unlikely event that you encounter a problem with your transmitter, please call your local dealer or contact directly our support team.

.....
manufacturing date

88 Slavyanska Str.
Plovdiv 4000, BULGARIA

tel: +359 32 646 523,
+359 32 646 524

fax: +359 32 634 089,
+359 32 646 517

e-mail: support@comeco.org