



COMEKO Inc., P.O.Box 378, Plovdiv 4000, BULGARIA, tel: +359 32 646523, 646524, fax: 634089
e-mail: info@comeco.org, WWW.COMECOGROUP.COM

TURBINE FLOW SENSOR FOR LIQUIDS

PSF800

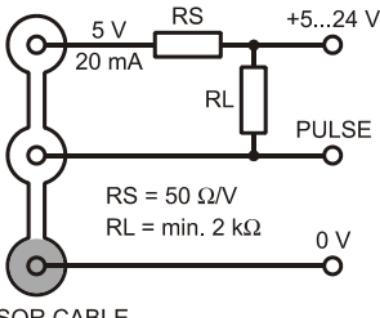
OPERATION MANUAL



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



*Use face sealant or glue,
not Teflon® tape!*



Installation

- ◆ Clean the medium-supply lines thoroughly.
- ◆ Mount a 20 µm pre-filter since solid particles or contamination in the medium may damage the flow sensor and/or influence the measurement results.
- ◆ Install PSF800 on the pipe with the arrow on its body matching flow direction.
- ◆ Slowly fill the system to avoid air damaging the rotor.

Electrical connection

- ◆ Wire PSF800 as shown on the left.
- ◆ Hook up electronic connector to the flow sensor. Make sure the connector is not coming into contact with liquids. This may influence measuring results negatively.

Operating



Important notes:

- ◆ Ensure the flow rate stays within the stated limits (see 'Specifications').
- ◆ Avoid any uncontrolled air pressure through the flow sensor. High bars at the beginning result in more than 38000 rotor rotations per second that would destroy rotor blades.
- ◆ Mind that PSF800 operating principle is based on volume measurement, i.e. air in water is counted as medium.

Once the sensor has been installed and connected as outlined above, a smooth operation is guaranteed.



The undersigned hereby declares, on behalf of COMECO Inc., that this device has been manufactured in compliance with standards EN 61010 and EN 61326, and meets the requirements of Directives 2004/108/EC, 2006/95/EC, and 2011/65/EU.

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 2002/96 on the Waste Electrical and Electronic Equipment.

| | |
|------------------------------|--|
| Flow Rate | 0.5...20 l/min |
| Liquid Viscosity | 1...1000 CST |
| Output Pulses | per liter |
| Output Frequency | 100...2000 Hz |
| Power Supply | 5...24 VDC |
| Consumption | 12...36 mA |
| Accuracy | ± 1% |
| Process Connection | G3/8" |
| Wetted Parts | <input type="checkbox"/> EPDM, <input type="checkbox"/> Viton® |
| Medium Pressure | max. 16 bar |
| Medium / Ambient Temperature | -20...90 °C |
| Storage Temperature | -40...90 °C (non-freezing) |

Warranty and Support

Warranty

COMEKO 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 PSF800 sensor 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 PSF800 sensor 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 sensor, please call your local dealer or contact directly our support team.

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manufacturing date

88 Slavyanska Str.
P.O.Box 378
Plovdiv 4000, BULGARIA
tel: +359 32 646523, 646524
fax: +359 32 634089, 646517
e-mail: support@comeco.org