

In-Line Flow Switches FS-480 Series

Installation

All NPT threads should be installed using a suitable thread sealant (Teflon tape or Permatex "No more Leaks"). Sealant must be kept out of unit during installation. Ten diameters of straight run piping are recommended upstream and downstream of the flow sensor.

The FS-480 end fitting is threaded to the body at assembly and torqued to 25 Ft. Lbs. If disassembly from a system is required, it is advisable to hold the end fitting hex with a wrench to prevent sensor disassembly. If the sensor should become disassembled as a result of uninstalling, retorque the end fitting to 25 Ft. Lbs.



FS-480 Flow Switches Can be Mounted In Various Positions

Flow settings are based on a vertical position (inlet port down), using water at +70°F on increasing flow. Some variation in set point actuation will occur in other mounting orientations.



Switch Ratings Max. Resistive Load

VA	Volts	Amps AC	Amps DC
20	0-30	.4	.3
	120	.17	.13
	240	.08	.06

Wiring Diagram



Specifications

Wetted Materials		
Housing	Stainless Steel	
Piston	PPS Composite/Epoxy	
Spring	316 Stainless Steel	
O-Ring	Fluorocarbon	
Oper. Pressure, Max.	1000 PSI	
Operating Temperature	-20°F to +275°F (120°C), (-28.8°C to +135°C)	
Required Filtration	100 Micron or Better	
Set Point Accuracy	±20%, Maximum	
Set Point Differential	20% Maximum	
Switch, See "Switch Ratings"	SPST, 20 VA	
Inlet / Outlet	1/2" Tube, 1/2" & 3/4" NPT Male	
Electrical Termination	No. 22 AWG, 24" to 26" PVC Cable	

PSID Gems FS 480, 1GPM Setpoint





- Our sensors must not be field-repaired.
- Physical damage sustained by product may render it unserviceable.

This product is suitable for Class I and Class II applications only, per the requirements of standard EN60730 and any additional specific requirements for a particular application or medium being sensed. Class I compliance of metal bodied units requires a ground connection between the metal body and the earthing system of the installation. Class I compliance of plastic bodied units in contact with a conductive medium requires that the medium be effectively earthed so as to provide an earthed barrier between the unit and accessible areas. For Class II compliance, a supply at safety extra-low voltage (SELV) must be provided. Please consult the Factory for compliance information on specific part numbers.

Return Policy

Returns are accepted on stock items up to 30 days from date of order. You must contact our Returns Department for a Return Authorization (RA) number. Return the goods - freight prepaid - in the original container and include original packing slip. C. O. D. returns are not accepted. Gems reserves the right to apply restocking charges.

Tel: 860-793-4357 Fax: 860-793-4563



Selection of materials for compatibility with the media is critical to

the life and operation of Gems products. Take care in the proper selection of materials of construction, testing is required.

Gems Sensors Inc. One Cowles Road Plainville, CT 06062-1198 Toll-Free: 1-800-378-1600