

SERIES TDFS2 | W.E. ANDERSON THERMAL DISPERSION FLOW SWITCH



FEATURES/BENEFITS

- Better reliability and life expectancy than mechanical flow switches with no paddles or vanes to wear or break, no jams in the paddle movement, and no seals on movement assembly to wear or leak
- Not affected by empty pipe as it avoids overheating by actively heating above the process temperature and then cooling down to process temperature
- · Set point is easily field set by tapping the included magnet on the set point target three times at the desired flow rate
- · LED status indicators provide visual switch indication of flow rate in relation to the set point
- · Low pressure drop; only needs to be inserted 10% into the flow (e.g. 1/8" for 3/4" schedule 40 pipe)

APPLICATIONS

- · Boiler flow proving
- Hot water heaters
- Chillers
- Liquid transfer systems

DESCRIPTION

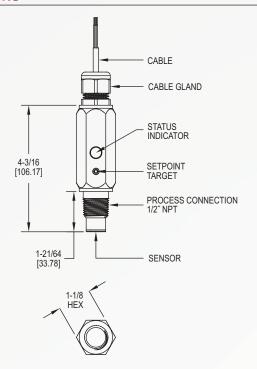
The Series TDFS2 Thermal Dispersion Flow Switch is a thermal flow switch that indicates whether the flow rate is above or below a user set flow rate. The unit incorporates two LED status indicators providing visual switch indication. The set flow rate (setpoint) is field adjustable and the unit has both NO and NC NPN outputs.

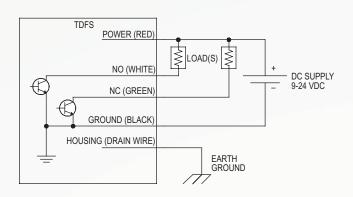
SPECIFICATIONS

Service	Compatible water-based fluids.
Wetted Materials	316 SS.
Set Point Range	0.5 to 10 ft/s (0.15 to 3.0 m/s).
Repeatability	0.07 ft/s +3% of set point.
Typical Deadband	0.1 ft/s +15% of set point.
Temperature Limits	Ambient: 5 to 140°F (-15 to 60°C), Process: 5 to 140°F (-15 to 60°C), Storage: -40 to 185°F (-40 to 85°C).
Pressure Limits	300 psig (20.67 bar).
Response Time	Approximately 8 s.
Power Requirement	9 to 24 VDC.
Switching Current	400 mA, derate 5 mA/°C above 23°C.
Current Consumption	Average: 93 mA, Peak: 300 mA.
Electrical Connection	1/2" NPT cable gland with 4 conductor 22 AWG, 6' (1.83 m) cable.
Process Connection	1/2" NPT male.
Enclosure Rating	NEMA 4X (IP65).
Housing Materials	316 SS, 416 SS, polycarbonate, neoprene, and acrylated urethane.
Switch Type	1 NO NPN, 1 NC NPN.
Input Power and Protection	0.5 A fuse (resettable) reverse polarity protected.
Switched Output Protection	0.5 A fuse (resettable) reverse polarity protected.
Agency Approvals	CE.

DIMENSIONS

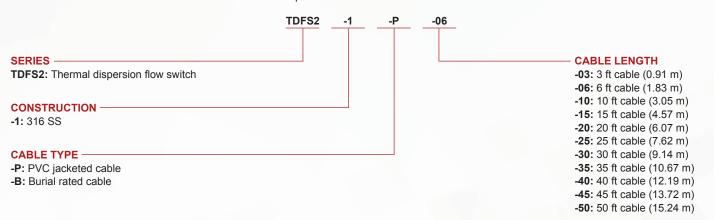
WIRING DIAGRAM





HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.



ACCESSORIES

Model	Description
100571-00	Replacement set point magnet

ORDER ONLINE TODAY!

dwyer-inst.com/Product/SeriesTDFS2



DWYER INSTRUMENTS, INC.

©Copyright 2019 Dwyer Instruments, Inc. Printed in U.S.A. 5/19

DS-TDFS2

Important Notice: Dwyer Instruments, Inc. reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Dwyer advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current.