

DVW  
VORTEX FLOWMETER AND SWITCH



Flow  
Pressure  
Level  
Temperature  
measurement  
monitoring  
control

DISAI  
Automatic Systems

T-962 448 450 [www.disai.net](http://www.disai.net)

- Measuring Ranges 0.5-4 Liter/Min. to 50-40 Liter/Min. Water
- Accuracy  $\pm 5\%$  of Full Scale
- LED Display and 2 Switches
- Compact or Remote Mounted Versions



S5



USA

KOBOLD Instruments Inc.  
1801 Parkway View Drive  
USA- Pittsburgh, PA 15205  
☎ +1 412-788-2830  
Fax +1 412-788-4890  
E-mail: [info@koboldusa.com](mailto:info@koboldusa.com)



CANADA

KOBOLD Instruments Canada Inc.  
9A Aviation  
Pointe-Claire, QC H9R 4Z2  
☎ +1 514-428-8090  
Fax +1 514-428-8899  
E-mail: [kobold@kobold.ca](mailto:kobold@kobold.ca)

Visit KOBOLD Online at  
[www.kobold.com](http://www.kobold.com)

Model:  
DVW



Features

- Measuring Ranges 0.5-4 Liter/Min. to 5-40 Liter/Min. Water
- Accuracy ±5% of Full Scale
- LED Display and 2 Switches
- Compact or Remote Mounted Versions

The DVW series vortex flowmeter and switch is ideal for measuring low flows of water and low viscosity liquids where monitoring flow switchpoints is required. The DVW operates on the vortex shedding principle. This principle employs a bluff body in the flow stream. As the liquid flows past the bluff body, turbulence and a pressure oscillation is formed behind the body. The frequency of this pressure oscillation is proportional to liquid flowrate. A pressure sensor behind the bluff body measures the oscillations. The vortex principle measures flow with no moving parts which makes the DVW extremely reliable. The flow-through design has a minimal pressure drop. The units features an LED flowrate display and two PNP transistor switches with programmable setpoint and hysteresis. Versions with compact or remote mounted sensors are available.



KOBOLD DVW Vortex Flowmeter and Switch

Specifications

**Measuring Principle:** Vortex shedding principle

**Measuring Range:** 0.5-4 LPM to 5-40 LPM water

**Linearity:** ±5% of full scale

**Repeatability:** ±3% of full scale

**Temperature Effect:** ±5% of full scale @ 0-50°C

**Viscosity Range:** 3 cSt. Max.

**Maximum Pressure:** 70 PSIG

**Operating Temperature Range:** 32-120°C

**Wetted Materials**

**Body:** Stainless Steel

**Sensor:** Ryton (PPS)

**O-ring:** Buna-N

**Response Time:** 1 second

**Display Type:** 3-digit LED flow rate display

**Power Requirement:** 12-24 VDC, 70 mA Max. plus switch loads

**Switches:** 2 PNP open collectors, 80 mA Max. w/ programmable switchpoint and hysteresis

**Electrical Connection:** Micro-DC, 4-pin, male

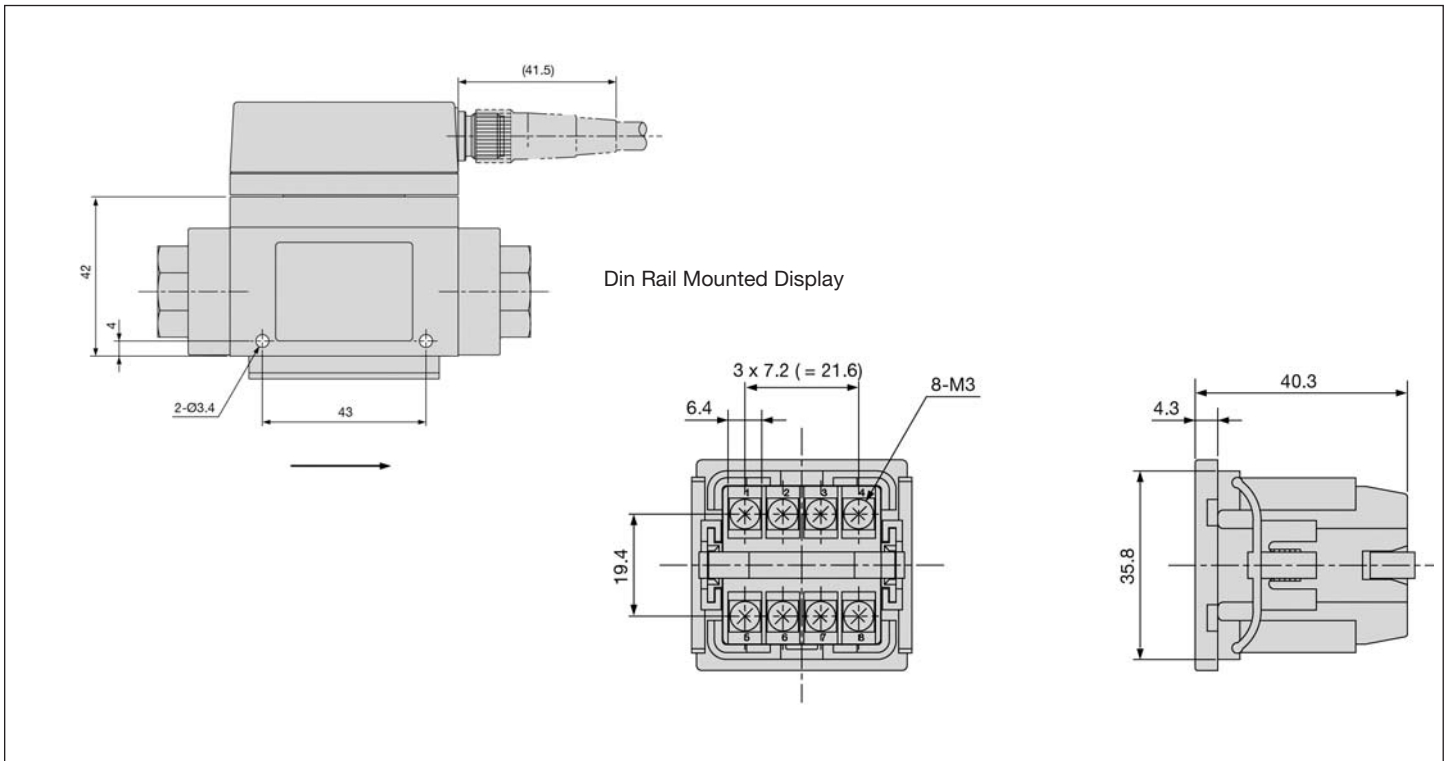
**Electrical Protection:** NEMA 4X/IP 65

**Vibration Resistance:** 10-500 Hz, 1.5 mm amplitude 10 G Max. acceleration in X, Y and Z axis.



DIMENSIONS (millimeters)

Remote Sensor



Panel Mounted Display

