DL76

Data Logger

Seametrics

The DL76 is a battery-powered data logger that can be used with any Seametrics flowmeter. It stores pulses for up to 3 years, depending on the user-selected frequency of reading. Indicator lights on the unit flash to indicate when it is functioning and when the battery is low.

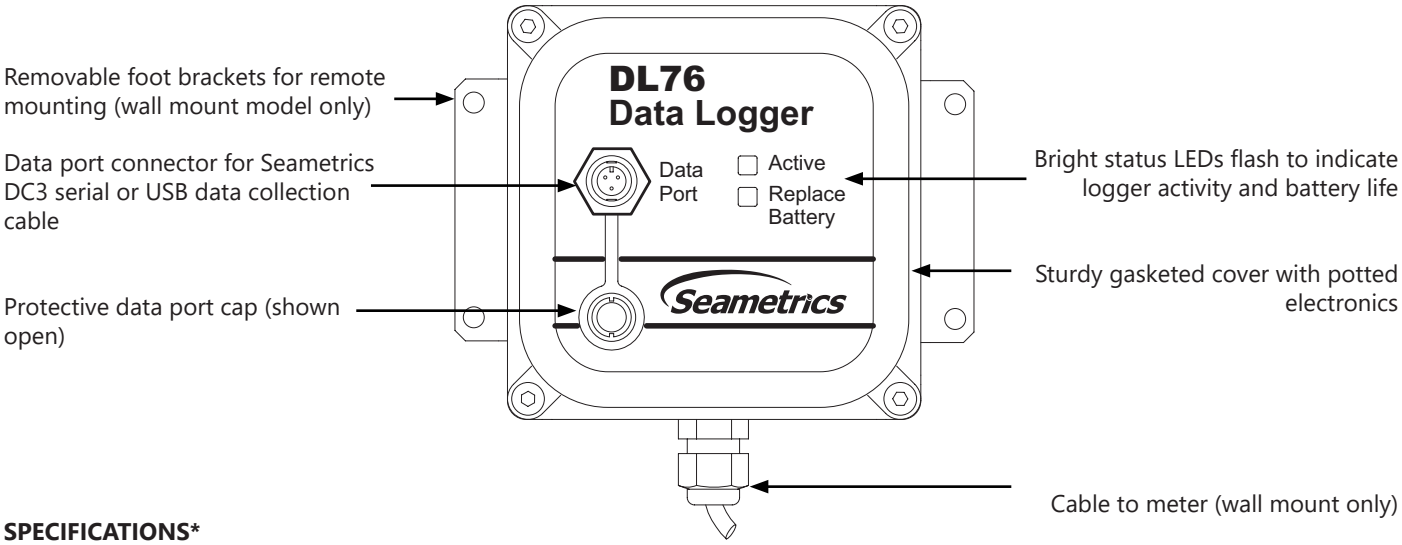
The DL76 can be factory-mounted on the meter or remotely mounted. Housings are rugged cast aluminum, gasketed for environmental protection.

When a DL76 logger is placed into operation, it is easily set up using a laptop computer. Data is also retrieved from the DL76 by means of a laptop and can be analyzed on the laptop or easily loaded on a desktop computer for analysis.
FlowInspector software (ordered separately) is required for the downloading, storing, viewing, graphing, charting and printing of data in several formats.

FlowInspector requires a PC with Windows 98, NT, 2000, XP, Vista, or Windows 7; CD-Rom drive; 800 x 600 screen resolution; serial port or USB/serial adapter; and a Seametrics DC3 data cable. FlowInspector comes in versions compatible with up to 4, up to 16, or 17+ dataloggers.

Note: If ordering a wall mounted DL76 with a mechanical meter, select the micropower -04 option.

FEATURES



SPECIFICATIONS*

Power		Size C 3.6 Vdc lithium battery (included)		
Battery Life		Estimated life is 3-5 years depending on usage.		
Temperature		0˚ to 130˚ F (-18˚ to 54˚C)		
Rate Units	**Volume**	mL, liter, gallon, Imperial gallon, cubic foot, cubic meter, million gallon		
	Time	Seconds, minutes, hours, days		
Total Units		Liter, gallon, Imperial gallon, cubic foot, cubic meter, million gallon, acre-foot, acre-inch, megaliter, thousand-gallon		
Data Storage Capacity		**Capacity**	**at**	**Sampling Interval**
		11 days	at	15 seconds
		22 days	at	30 seconds
		44 days	at	60 seconds
		6 months	at	240 seconds
		1 year	at	480 seconds
		3 years	at	1450 seconds
Maximum Input Frequency		500 Hz		
Indicators		Low battery; Power		
Memory Wraparound		Selectable options (Stop or Overwrite)		
Clock Accuracy		10 minutes/month (.02%)		
Environmental		NEMA 4X, IP66		

**Specifications subject to change • Please consult our website for current data (www.Seametrics.com).*

MOUNTING

There are three mounting configurations for a DL76: Meter mount for mechanical meters, meter mount for insertion magmeters, and wall mount (DL76W). The meter mount models match up to any Seametrics lower square housing. All configurations can be factory-ordered or field-installed.

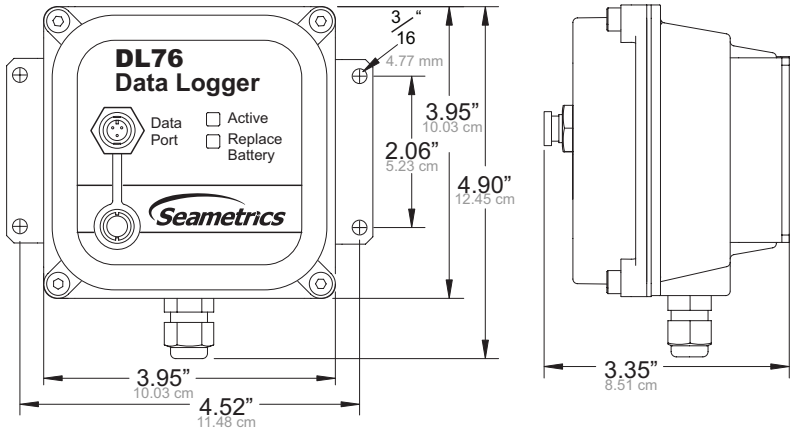
Meter Mounting. Remove the four screws on the meter cover with a 5/32" Allen wrench. After connecting the leads to their respective terminals (see diagram), put the DL76 in place of the meter cover and tighten the screws evenly. The gasket on the DL76 should be visibly compressed by tightening all around.

OPERATION

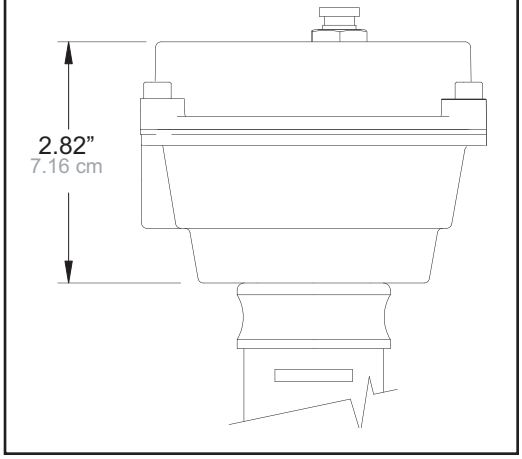
Seametrics FlowInspector V.2 software is required for operation of the DL76. Please consult your FlowInspector manual for instructions in loading the software onto your computer, setting up your DL76 for use, downloading, storing, and analyzing your data. FlowInspector software can be downloaded from the Seametrics website for free (www.seametrics.com).

DIMENSIONS

DL76W (WALL MOUNT)



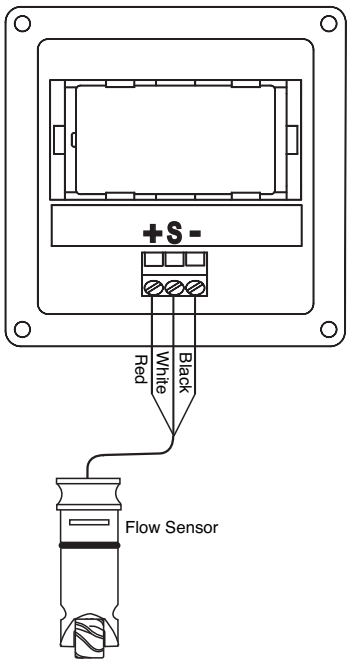
DL76 (METER MOUNT)



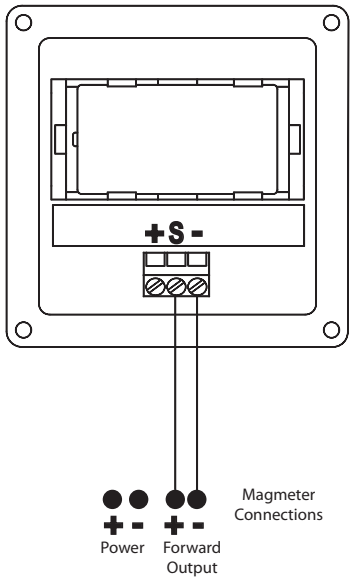
CONNECTIONS (see also next page)

Caution: Do not apply external power to the DL76

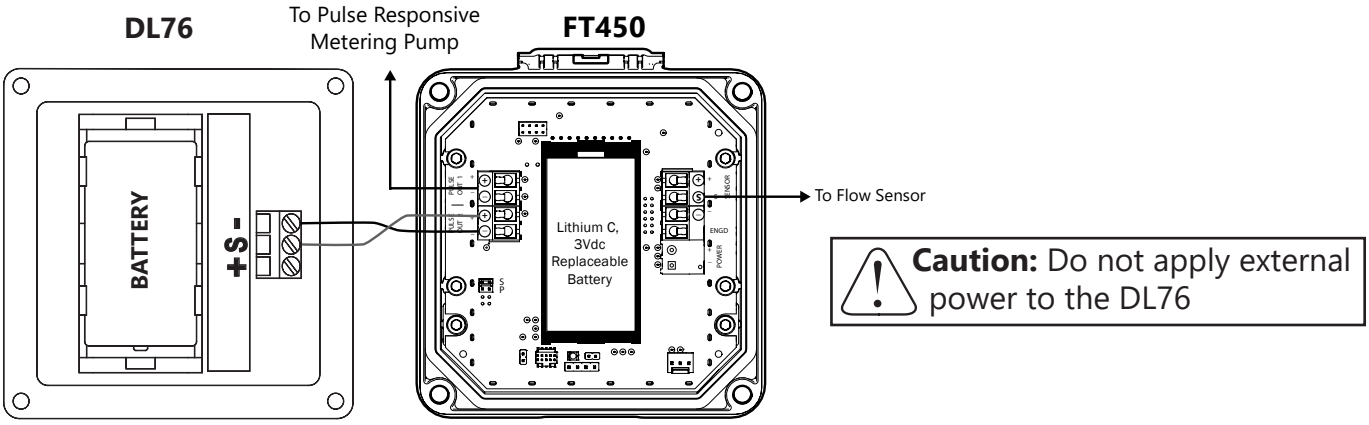
DL76 TO MECHANICAL METER



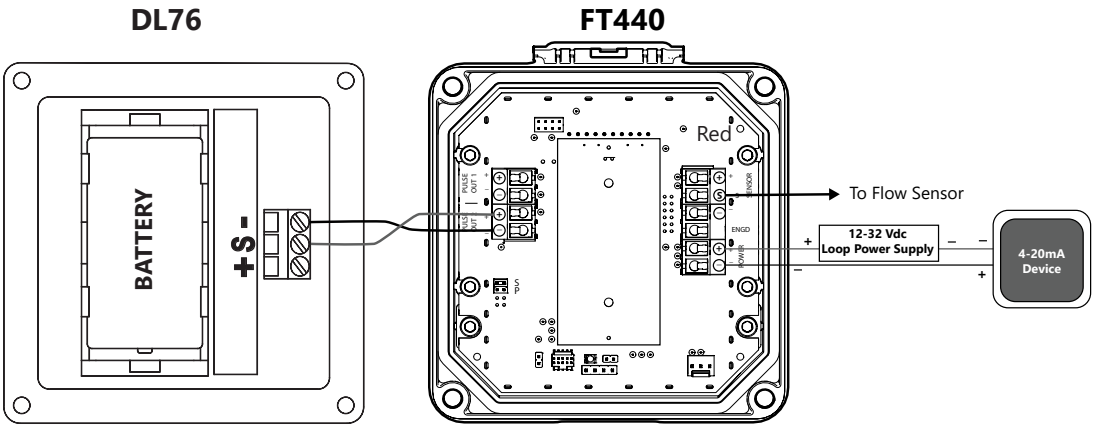
DL76 TO MAGMETER



DL76 TO FT450



DL76 TO FT440



TROUBLESHOOTING

Problem	Probable Cause	Try...
Laptop screen reads "No connection" and "Active" light is NOT blinking	DL76 is transmitting data. Wait two minutes before taking action. Dead battery in DL76	Wait for "Active" light to blink Replace battery
Laptop screen reads "No connection," but "Active" light IS blinking	Loose cable Bad cable	Tighten cable Test cable (tech bulletin "DL75/76: Testing the DC3 Serial Cable" on Downloads page at www.Seametrics.com)
Flow rate incorrect	K-factor setting is incorrect	Make sure K-factor in DL76 matches flow sensor
No flow rate	Damaged flow sensor Broken wire	Mechanical: See if rotor spins freely EX Magmeter: See if "Status LED" indicator is blinking Check for flow rate