

DL76

Seametrics

DATA LOGGER SYSTEM INSTRUCTIONS

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GENERAL INFORMATION

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.

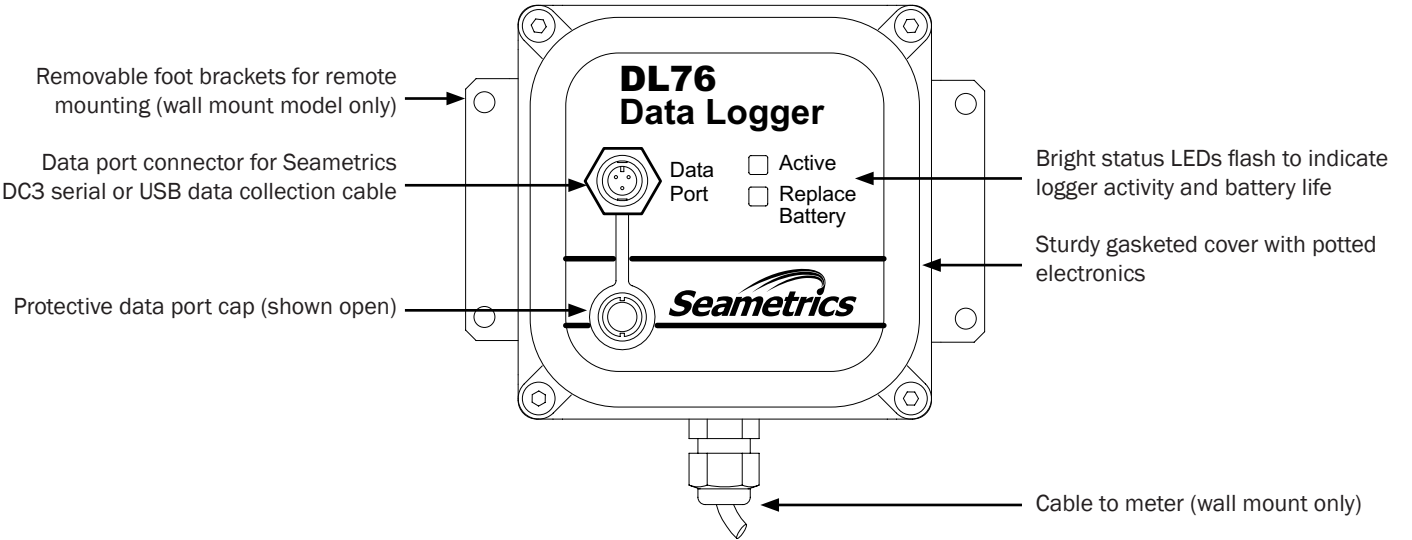
When a DL76 logger is placed into operation, it is easily set up using a laptop computer. Data is also retrieved from the

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.

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	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%)	

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

MOUNTING & CONNECTIONS

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. Converting from one mounting configuration to another requires use of MK10 or MK20 mounting kits.

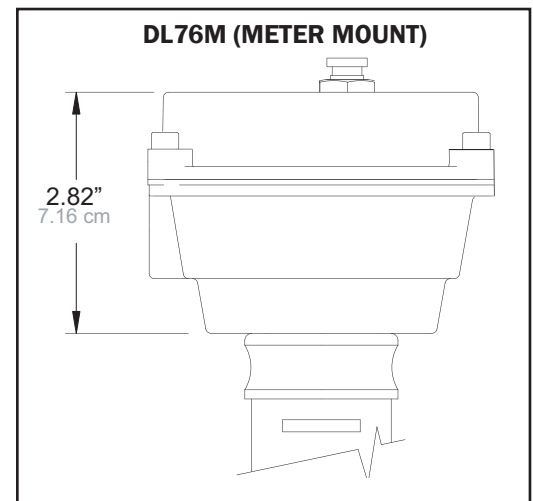
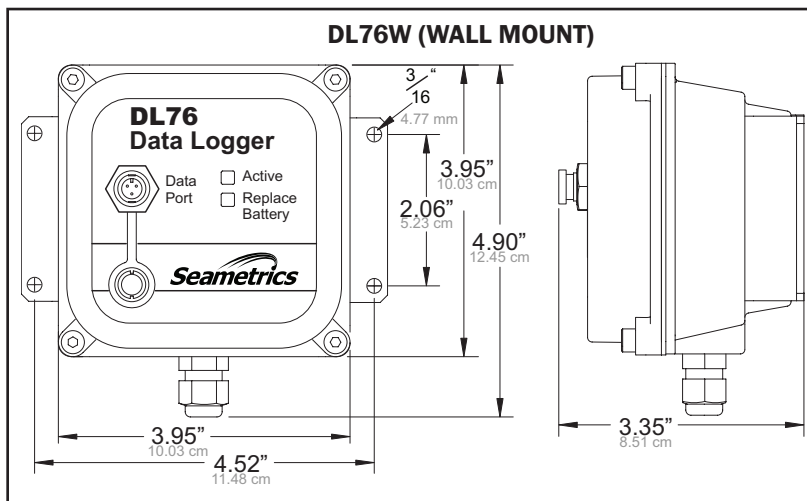
Meter Mounting. Remove the four screws on the meter cover with a 5/32" Allen wrench. After connecting the leads to their respective terminals (see diagram), put the DL76 in place of the meter cover and tighten the screws evenly. The gasket on the DL76 should be visibly compressed by tightening all around.

OPERATION

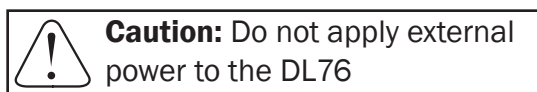
Seametrics FlowInspector V.2 software is required for operation of the DL76. Please consult your FlowInspector manual for instructions in loading the software onto your

computer, setting up your DL76 for use, downloading, storing, and analyzing your data.

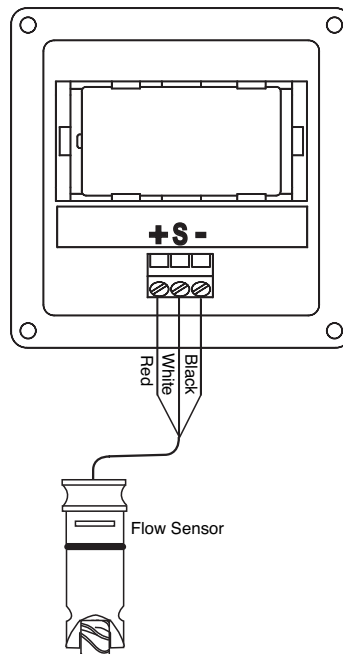
DIMENSIONS



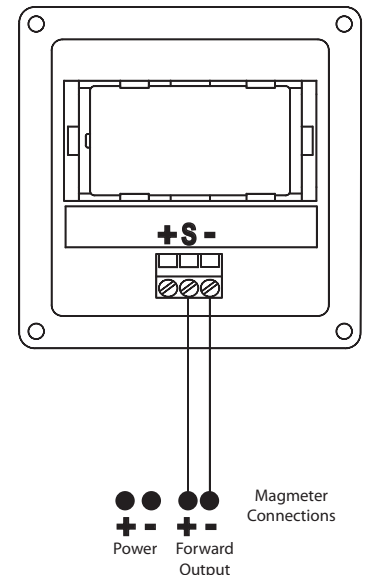
CONNECTIONS (see also next page)



DL76 TO MECHANICAL METER

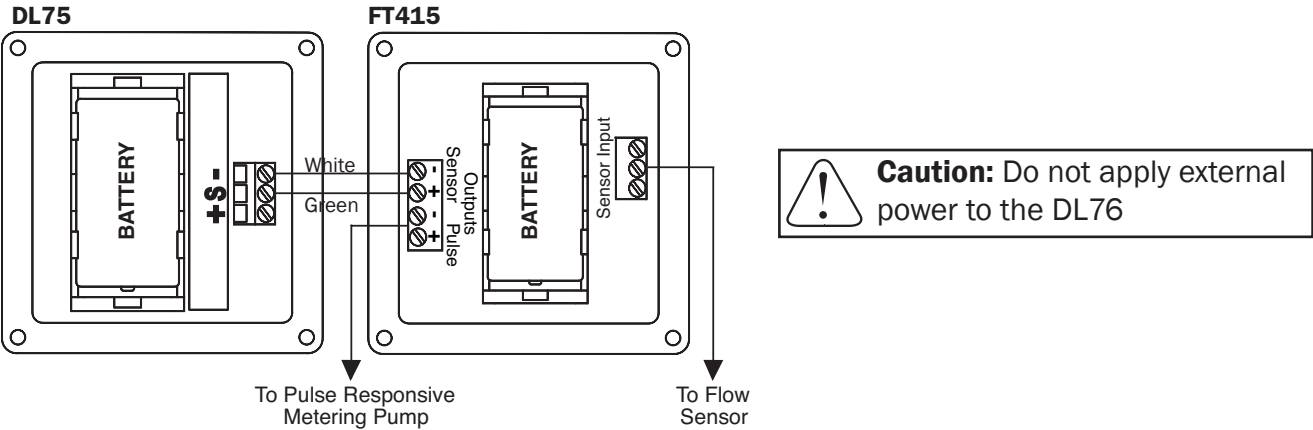


DL76 TO MAGMETER

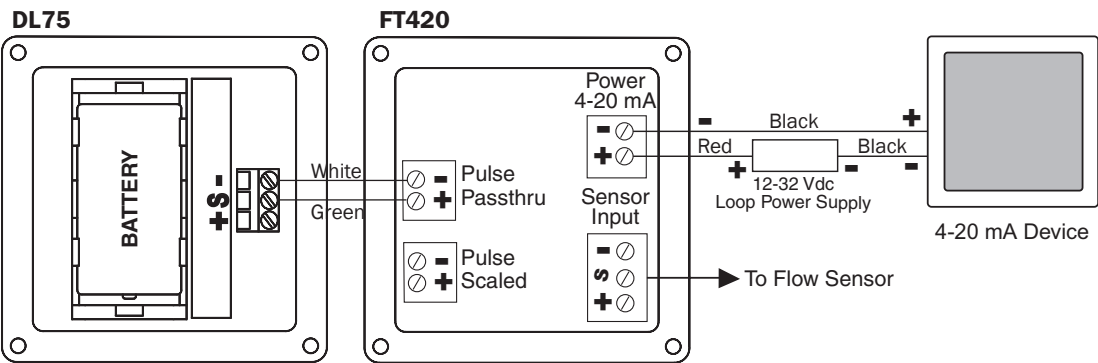


CONNECTIONS

DL76 TO FT415



DL76 TO FT420



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 <u>IS</u> 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



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