



# ENGINEERING BULLETIN

**Bulletin Number: 11-003**

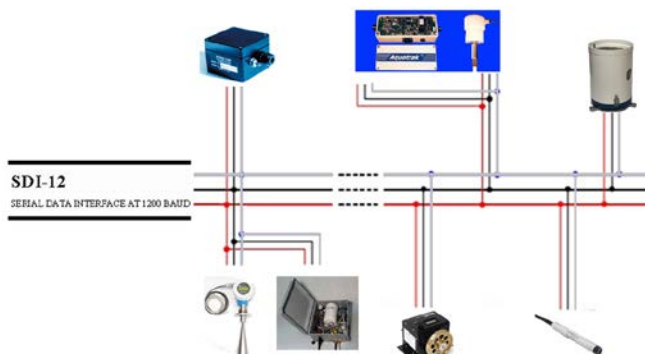
**Date: August 26, 2011**

## **Engineering Change: CO-OPS SDI-12 Addresses Update**

Systems: All CO-OPS measurement systems that utilize instrumentation with SDI-12 protocol

Region: All Regions

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MSCS Approval: 26 August 2011

### Background/History:

SDI-12 protocol is applied by many CO-OPS approved instruments, which allows multiple devices with unique addresses to be powered and shared on the same data channel. With the introduction of the WaterLog® H-3611 microwave water level (MWL) sensor, the status of these designations were reviewed in order to avoid any conflicts as well as to prepare any potential devices that will require SDI-12 naming in the future.

### Action:

While it is not desirable to leave an SDI-12 instrument with a default address of "0", any deployed sensors that use address "0" will be left alone. For next-generation data collection platforms, upgrades will not have SDI-12 sensors with address "0."

Sensor	Application	SDI-12 Address
Aquatrak® 4110 Controller	Tides/Acoustic Water Level	0
WaterLog® H-334/H-3342N Shaft Angle Encoder	Great Lakes Water Level	0
Aquatrak® 4110 Controller	Tsunami (1-minute values)	2
KPSI® 500T Pressure Transducer	Great Lakes Water Level	3
WaterLog® H-340SDI Tipping Bucket	Rainfall	3
Sutron® Accubar Barometer	Barometric Pressure	5
YSI® 6-Series Multiparameter Sonde	Water Quality	7
WaterLog® H-355/H-3551 "Smart Gas" System	1 <sup>st</sup> Bubbler Purge System – DCP #1	A
WaterLog® H-355/H-3551 "Smart Gas" System	2 <sup>nd</sup> Bubbler Purge System – DCP #1	B
WaterLog® H-355/H-3551 "Smart Gas" System	1 <sup>st</sup> Bubbler Purge System – DCP #2	D
WaterLog® H-355/H-3551 "Smart Gas" System	2 <sup>nd</sup> Bubbler Purge System – DCP #2	E
Reserved - OSTEP/Instrument Labs	Testing & Analysis	X*
WaterLog® H-3611i Radar Sensor	Microwave Water Level	Y*
WaterLog® H-3612 Radar Sensor	Bridge Clearance Air Gap	S*

\* New Address Designation