

ST-15-WX Series Overfill Prevention Control Units for Storage Tanks

Multiple-Point Liquid-Level Detection System for High and Low Level Warning and Spill Prevention.

ELECTRONIC
PRODUCT
LINE



Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry



ST-15-WX 4

DESCRIPTION

The Scully ST-15-WX series multiple point liquid level detection control units are available in two through twelve channel models. The ST-15-WX is commonly used to provide overfill protection, high level warning, low level warning and/or pump and valve control functions. They are well suited for multiple fixed storage tank and transport tank applications where individual display and/or output control is required.

The output control function may be reversed to alarm for a dry sensor condition rather than a wet sensor condition for low level warning.

The ST-15-WX enclosure includes individual red indicator lamps that light when a sensor is wetted, a power indicator lamp, an alarm acknowledge push button and alarm test push button. Once a sensor alarm is acknowledged the alarm output circuit is reset, however, the indicator lamp remains lit until the sensor is dry again.

FEATURES AND BENEFITS

- Incorporates Dynamic Self-Checking™ circuitry which monitors the controller, wiring, connections and sensors for faults thirty times per second.
- Signals an audible alarm and/or controls pumps and valves for automatic shutdown.
- Monitors from 2 –12 total sensing points depending on model
- Provides liquid level detection for a wide variety of petroleum and chemical products.
- Uses output sensors approved as intrinsically safe for use in Class 1, Division 1, Group D hazardous environments
- Features NEMA 4 style watertight housings.
- Works in conjunction with either Scully field-proven thermistor or Instant-On optic sensors.

ST-15-WX series controllers incorporate Scully's unique and exclusive Dynacheck circuitry when connected to Scully sensors. Using pulsed signals to simulate a wet or "unsafe" condition, the monitor automatically and continuously checks the entire system operation; controller, wiring, connectors and sensors for faults thirty (30) times per second.

If liquid comes in contact with the sensor tip, or in the unlikely event a fault occurs, the pulsed signals cease and the monitor signals an audible alarm and/or controls, pumps and valves for immediate shutdown.

Compatible liquid level sensors for the The ST-15-WX employ solid state thermistor and Instant-On optic sensing technology. Sensors and holders constructed of aluminum or stainless steel for sensing a wide variety of liquid products including petroleum and chemicals are available. Consult the technical data sheets listed on the back for further sensor information.



IEC 61508 Certified
SIL2 HFT=0
SIL3 HFT=1

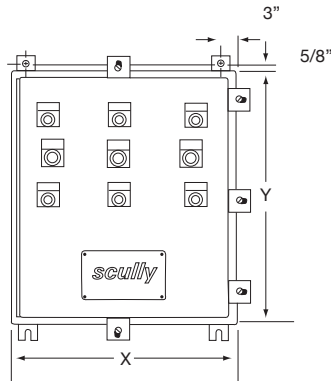
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MaxSafety®
SYSTEMS

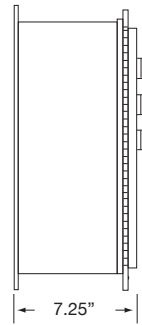
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Multiple-Point Liquid-Level Detection System

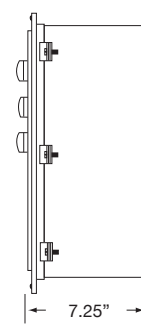
All Dimensions in Inches Unless Otherwise Noted



Front View
(Model ST-15-WX Shown)



Left Side View



Right Side View

TECHNICAL SPECIFICATIONS

- Product Range:** Gasoline through #6 oil, waste oil, chemicals, water, etc. Consult Scully for specific application questions.
- Controls:** Alarm test push button. Alarm silence circuit with push button and automatic reset.
- Indicator Lights:** Green= Power On;
Red= Alarm Condition
- Response Time:** High-Level: .05 seconds maximum
Low-Level: 3-7 seconds.
- Enclosure:** NEMA 4 style for indoor/outdoor use.

- Power Requirements:** 115 VAC, +/- 15%, 50-60HZ, 20 watts maximum. Also available in 240 VAC models, consult Scully for details.
- Electrical Connections:** Internal Terminal Strips.
- Output Provisions:** External Alarm, 115VAC, 3 A max. Individual channel SPDT contacts, rated 5A-250 VAC.
- Compatible Sensors:** Refer to technical data sheets; 60635, 60715.
- Chemical Applications:** Refer to technical data sheet 67100

Unit must be located outside hazardous areas. Please contact our Customer Service Applications Department for a customized quotation for your specific application.

ORDERING INFORMATION

Description	DIM X		DIM Y		Depth		Part Number
	in.	cm.	in.	cm.	in.	cm.	
ST-15-WX2 Two Channel/Sensing Point Control Unit	11"	27.94	12.75"	32.38	5.25"	13.33	07839
ST-15-WX3, Three Channel/Sensing Point Control Unit	16"	40.64	24"	60.96	7.25"	18.04	07851
ST-15-WX4, Four Channel/Sensing Point Control Unit	16"	40.64	24"	60.96	7.25"	18.04	07852
ST-15-WX5, Five Channel/Sensing Point Control Unit	24"	60.96	30"	76.20	7.25"	18.04	07853
ST-15-WX6, Six Channel/Sensing Point Control Unit	24"	60.96	30"	76.20	7.25"	18.04	07854
ST-15-WX7, Seven Channel/Sensing Point Control Unit	24"	60.96	30"	76.20	7.25"	18.04	07855
ST-15-WX8, Eight Channel/Sensing Point Control Unit	24"	60.96	30"	76.20	7.25"	18.04	07856
ST-15-WX9, Nine Channel/Sensing Point Control Unit	30"	60.96	36"	76.20	7.25"	18.04	07857
ST-15-WX10, Ten Channel/Sensing Point Control Unit	30"	76.20	36"	91.44	7.25"	18.04	07858
ST-15-WX11, Eleven Channel/Sensing Point Control Unit	30"	76.20	36"	91.44	7.25"	18.04	07859
ST-15-WX12, Twelve Channel/Sensing Point Control Unit	30"	76.20	36"	91.44	7.25"	18.04	07860



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