

TS-DMS-12: Alarm Indication and Recording

The TSP-DMS-12 sensor is a discriminating sensor that uses magnostriuctive technology to detect the presence of water or hydrocarbons. The DMS Sensor is equipped with two separate floats; one to detect water and the other to detect hydrocarbons present in a sump or interstitial space. The DMS is also equipped to alarm if the sensor is tampered with or removed.

Upon detection of water, the DMS will produce a water warning; in addition the T5 Series console can be programmed to alarm at a preset water level limit. If the water level is at or above this preset limit a MAG WATER ALARM will be generated.

If hydrocarbons are present, the DMS will trigger an alarm at the console immediately upon detection. In the event of an alarm, the T5 Series console will sound an audible horn (3 beeps) and red flashing alarm light will flash steadily at the console and continue flashing until the alarms condition is cleared.

The DMS Water warning will flash a yellow light until the condition is cleared. The T5 Series console touch screen and alarm history report will post the following alarms: MAG WATER WARNING, MAG WATER ALARM and MAG PRODUCT ALARM.

In the event the DMS sensor is moved or raised off the bottom of the sump or interstitial space, a MAG INSTALLATION ERROR will alarm on the console and record in the alarm history.

The touch screen post will also include which sensor is in alarm, the time and date the alarm or warning occurred. The alarm and warnings are recorded on the alarm history report indicating which sensor, the time the alarm or warning occurred and when the alarm or warning condition was cleared.

Programming

The DMS programming provides the ability to indicate a water level limit that will produce a Water Alarm. The DMS will issue a water warning at any water level detected below this programmed level.

System ID	»	...	...
System Configuration	»	...	...
Remote Data Transfer Units	»	...	...
IO Modules	»	...	...
AC Input Modules	»	...	...
Probe Modules (DTU)			
Module 1	»	...	...
Module 2		Channels	7
Channel 1	»	...	...
Channel 2		Name	Mag #1
		Type	TS-DMS
		Monthly compliance	Yes
Limits		Water Alarm	51 mm
Channel 3		Name	Mag #2
		Type	TS-DMS
		Monthly compliance	Yes
Limits		Water Alarm	51 mm
Channel 4	»	...	...
Channel 5	»	...	...
Channel 6	»	...	...
Channel 7	»	...	...
Remote Module 3 (DTU)		Channels	0
2-Wire Sensor Modules	»	...	...
3-Wire Sensor Modules	»	...	...
4-20mA Input Modules (DTU)	»	...	...
Power Supply	»	...	...

Madison Office
Franklin Fueling Systems
3760 Marsh Road
Madison, WI 53718
608-838-8786
USA

From : 03/21/2011
To : 04/20/2011

04/20/2011 15:53:13

FMS Alarm History Report

Device	Description	Type	Date Occurred	Date Cleared
Mag #2	Mag installation error	Alarm	04/20/2011 15:34:11	04/20/2011 15:35:52
Mag #2	Mag water alarm	Alarm	04/20/2011 15:33:26	04/20/2011 15:34:05
Mag #2	Mag water warning	Warning	04/20/2011 15:33:08	04/20/2011 15:34:05
Mag #2	Mag installation error	Alarm	04/20/2011 15:32:56	04/20/2011 15:33:15
Mag #2	Mag product alarm	Alarm	04/20/2011 15:32:55	04/20/2011 15:33:14
Mag #2	Mag water warning	Warning	04/20/2011 15:25:14	04/20/2011 15:25:33
Mag #2	Mag product alarm	Alarm	04/20/2011 15:24:17	04/20/2011 15:24:49
Tank '2	No probe detected	Alarm	04/20/2011 14:19:30	
Tank <5	No probe detected	Alarm	04/20/2011 14:19:24	
Tank >4	No probe detected	Alarm	04/20/2011 14:19:21	
Tank #2	No probe detected	Alarm	04/20/2011 14:19:18	

Alarm Reports

Above is the alarm history report produced through the web interface while connected to the console via laptop or other network connection. Below is an example of the alarm reports produced by the T5 consoles internal printer.

```

Madison Office
Franklin Fueling Systems
3760 Marsh Road
Madison, WI 53718
608-838-8786
USA
04/20/2011 15:26

Alarms Report
From: 03/22/2011
To: 04/20/2011

Mag #2
Mag water warning
Warning
Occurred
04/20/2011 15:25:14
Cleared
04/20/2011 15:25:33

Mag #2
Mag product alarm
Alarm
Occurred
04/20/2011 15:24:17
Cleared
04/20/2011 15:24:49
    
```

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Madison Office
Franklin Fueling Systems
3760 Marsh Road
Madison, WI 53718
608-838-8786
USA
04/20/2011 15:33

Alarms Report

Mag #2
Mag water alarm
Alarm
Occurred
04/20/2011 15:33:26

Mag #2
Mag water warning
Warning
Occurred
04/20/2011 15:33:08
    
```

```

Madison Office
Franklin Fueling Systems
3760 Marsh Road
Madison, WI 53718
608-838-8786
USA
04/20/2011 15:34

Alarms Report

Mag #2
Mag installation error
Alarm
Occurred
04/20/2011 15:34:11
    
```