** INSTALLATION INSTRUCTION MANUAL **

** topics **          page#

1. PRISM MONITOR INSTALLATION ------------------------------------------2
2. WIRING INSTRUCTIONS --------------------------------------------------3
3. SERIES 6000 PRISM CABLING DIAGRAMS---------------------------------- 4
4. SERIES 500 PRISM CABLING DIAGRAMS----------------------------------- 5
5. CONNECTOR SPECIFICATIONS---------------------------------------------11
6. SENSOR SPECIFICATIONS----------------------------------------------- 6
7. PRISM DISPLAY OPERATIONS --------------------------------------------13
8. AIR RELIEF VALVE MOUNTING------------------------------------------14

NOTE: The Prism CANNOT be calibrated in the field. Attempting any calibration can cause permanent damage to the Prism and void its warranty. If you believe the Prism has a problem, contact M.C. Products at 1-800-345-0839 and speak with a technician. Thank you.
**PRISM INSTALLATION INSTRUCTIONS**

CUT A 3 3/8" (85mm) HOLE IN THE PANEL. SECURE THE DIAL TO THE PANEL USING THE BRACKETS AND HARDWARE AS SHOWN BELOW:

- Apply bracket holes over the two studs located on the back of the dial. Apply nuts and tighten until the bracket is drawn tight against the back of the pump panel. Do not overtighten nuts.
- Make sure the two nuts on the studs that are against the back case of the dial are tight.

SUPPLIED MOUNTING BRACKETS AND HARDWARE
**PRISM WIRING INSTRUCTIONS**

- Connect to a voltage source that is switched on and off by the master safety switch.
- Connect to a constant voltage source forward of the master safety switch.
- Connect to chassis ground.
- (Option) Connect to the low level alarm. (.25 amps max.)
- (Option) Connect to the high level alarm. (.25 amp max.)
**MONITOR SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>500 PRISM</th>
<th>2000 PRISM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT LOAD</td>
<td>1.25A</td>
<td>1.25A</td>
</tr>
<tr>
<td>SUPPLY VOLTAGE</td>
<td>12V/24V</td>
<td>12V/24V</td>
</tr>
<tr>
<td>SYSTEM GROUND</td>
<td>NEG/POS</td>
<td>NEG/POS</td>
</tr>
<tr>
<td>SENTINEL LOAD</td>
<td>.05A</td>
<td>.05A</td>
</tr>
</tbody>
</table>

**CONTROL CABLE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>PURPOSE</th>
<th>TYPE</th>
<th>LENGTH</th>
<th>CONNECTORS</th>
<th>PART#</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTENSION</td>
<td>REMOTE TO MASTER</td>
<td>11 ft.</td>
<td>MALE/FEMALE DEUTSCH 5-CONDUCTOR</td>
<td>M1404</td>
</tr>
<tr>
<td>EXTENSION</td>
<td>EXTENSION</td>
<td>15 ft.</td>
<td>MALE/FEMALE DEUTSCH 4-CONDUCTOR</td>
<td>M1145</td>
</tr>
<tr>
<td>EXTENTION</td>
<td>&quot;Y&quot; CONNECTOR</td>
<td>6&quot;</td>
<td>MALE/MALE/FEMALE DEUTSCH (SENSOR TO MASTER &amp; REMOTE)</td>
<td>M1412</td>
</tr>
<tr>
<td>EXTENSION</td>
<td>&quot;Y&quot; CONNECTOR</td>
<td>6&quot;</td>
<td>MALE/MALE/FEMALE DEUTSCH (SENSOR TO MASTER &amp; REMOTE)</td>
<td>M1412</td>
</tr>
</tbody>
</table>

**SERIES 2000 PVC SENSOR SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SENSOR TYPE</th>
<th>CABLE LENGTH</th>
<th>MALE CONNECTOR</th>
<th>FLANGE DIAMETER</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP MOUNT 4 BOLT</td>
<td>1 ft.</td>
<td>GRAY DEUTSCH 4 PIN CONNECTOR (MALE) DT04-4P</td>
<td>2.5&quot;</td>
<td>CUSTOM SIZED</td>
</tr>
<tr>
<td>SIDE MOUNT 4 BOLT</td>
<td>1 ft.</td>
<td>GRAY DEUTSCH 4 PIN CONNECTOR (MALE) DT04-4P</td>
<td>2.5&quot;</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

**STAINLESS STEEL SENSOR SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SENSOR TYPE</th>
<th>CABLE LENGTH</th>
<th>MALE CONNECTOR</th>
<th>FLANGE DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP MOUNT 4 BOLT</td>
<td>1 ft.</td>
<td>GRAY DEUTSCH 6 PIN CONNECTOR (MALE) DT04-6P</td>
<td>2.5&quot;</td>
</tr>
<tr>
<td>RIGHT ANGLE SIDE MOUNT 4 BOLT</td>
<td>1 ft.</td>
<td>GRAY DEUTSCH 6 PIN CONNECTOR (MALE) DT04-6P</td>
<td>3.00&quot;</td>
</tr>
<tr>
<td>FILL TOWER SLIP OUT</td>
<td>1 ft.</td>
<td>GRAY DEUTSCH 6 PIN CONNECTOR (MALE) DT04-6P</td>
<td>N/A</td>
</tr>
</tbody>
</table>
CONNECTOR SPECIFICATIONS

PIN 4 (BARE) SHIELD GROUND
PIN 3 (WHITE) SENSOR VOLTAGE
PIN 2 (BLACK) GROUND

DEUTSCH CONNECTOR
(MALE) FRONT PIN VIEW
MODEL# DT04-4P

PIN 1 (YELLOW) +12VDC
PIN 4 (BARE) SHIELD GROUND

DEUTSCH CONNECTOR
(FEMALE) SOCKET VIEW
MODEL# DT04-4S

PIN 1 (YELLOW) +12VDC
PIN 5 (GREY) GROUND
PIN 4 (WHITE) 1/4 LEVEL

DEUTSCH CONNECTOR
(MALE) FRONT PIN VIEW
MODEL# DT04-6P

PIN 6 (BLANK)
PIN 5 (GREY) GROUND
PIN 3 (BLACK) 1/2 LEVEL

DEUTSCH CONNECTOR
(FEMALE) SOCKET VIEW
MODEL# DT06-6S

PIN 1 (YELLOW) FULL
PIN 2 (BLUE) 3/4 LEVEL
PIN 4 (WHITE) 1/4 LEVEL
PIN 6 (BLANK)
PIN 5 (GREY) GROUND
PIN 3 (BLACK) 1/2 LEVEL
PIN 4 (WHITE) 1/4 LEVEL

CONNECTOR SPECIFICATIONS

PIN 4 (BARE) SHIELD GROUND
PIN 3 (WHITE) SENSOR VOLTAGE
PIN 2 (BLACK) GROUND

DEUTSCH CONNECTOR
(MALE) FRONT PIN VIEW
MODEL# DT04-4P

PIN 1 (YELLOW) +12VDC
PIN 4 (BARE) SHIELD GROUND

DEUTSCH CONNECTOR
(FEMALE) SOCKET VIEW
MODEL# DT04-4S

PIN 1 (YELLOW) +12VDC
PIN 5 (GREY) GROUND
PIN 4 (WHITE) 1/4 LEVEL

DEUTSCH CONNECTOR
(MALE) FRONT PIN VIEW
MODEL# DT04-6P

PIN 6 (BLANK)
PIN 5 (GREY) GROUND
PIN 3 (BLACK) 1/2 LEVEL

DEUTSCH CONNECTOR
(FEMALE) SOCKET VIEW
MODEL# DT06-6S

CONNECTOR SPECIFICATIONS

PIN 4 (BARE) SHIELD GROUND
PIN 3 (WHITE) SENSOR VOLTAGE
PIN 2 (BLACK) GROUND

DEUTSCH CONNECTOR
(MALE) FRONT PIN VIEW
MODEL# DT04-4P

PIN 1 (YELLOW) +12VDC
PIN 4 (BARE) SHIELD GROUND

DEUTSCH CONNECTOR
(FEMALE) SOCKET VIEW
MODEL# DT04-4S

PIN 1 (YELLOW) +12VDC
PIN 5 (GREY) GROUND
PIN 4 (WHITE) 1/4 LEVEL

DEUTSCH CONNECTOR
(MALE) FRONT PIN VIEW
MODEL# DT04-6P

PIN 6 (BLANK)
PIN 5 (GREY) GROUND
PIN 3 (BLACK) 1/2 LEVEL

DEUTSCH CONNECTOR
(FEMALE) SOCKET VIEW
MODEL# DT06-6S
PRISM MONITOR w/ SENTINEL LED
FOR WATER AND FOAM

PRISM DISPLAY OPERATION

"REFILL LEVEL"
ALL 17 LED’S
ARE FLASHING
(RED)

"1/4 LEVEL"
FIRST 5 LED’S
ARE ALTERNATLY
FLASHING (AMBER &
RED)

"1/2 LEVEL"
FIRST 9 LED’S
ARE FLASHING
(AMBER)

NOTE: AS THE DISPLAY IS GETTING READY TO CHANGE TO INDICATE
A NEW 1/4 LEVEL, IT WILL "STUDDER" BETWEEN THE NEW AND OLD
1/4 LEVEL TO INDICATE TO YOU THAT THE DISPLAY IS ABOUT TO CHANGE.

NOTE: AS THE LEVEL CHANGES FROM 3/4 LEVEL TO REFILL,
THE FLASHING RATE OF THE LED’S BECOMES QUICKER!!

"3/4 LEVEL"
FIRST 13 LED’S
ARE FLASHING
(GREEN)

"FULL"
ALL 17 LED’S
ARE ON SOLID
(BLUE)

SENTINEL FEATURE
WITH THE MASTER
SAFETY SW. OFF, THE SENTINEL
LED WILL CONTINUE TO MONITOR
THE LEVEL
FULL = SOLID BLUE
3/4 = FLASHING GREEN
1/2 = FLASHING AMBER
1/4 = FLASHING AMBER & RED
REFILL = FLASHING RED
** SERIES 2000 AIR RELIEF FITTING **

INSTALLATION INSTRUCTIONS
FOR USE IN SEALED OR NON-VENTED TANKS ONLY

ENSURE THAT THE AIR RELIEF VALVE WILL SIT ABOVE THE FLUID LEVEL. DRILL A 1 1/8" HOLE IN THE FILL TOWER LID.

UNSCREW THE SUPPLIED RELIEF FITTING. INSERT ONE HALF OF THE FITTING INTO THE HOLE AND SCREW ON THE REMAINING HALF TO THE FIRST HALF HAND TIGHT.

THE MC AIR RELIEF FITTING WAS SPECIALLY DESIGNED TO MAINTAIN THE APPROPRIATE PRESSURE IN THE TANK.

TANKS PREVIOUSLY EQUIPPED WITH A VENT OTHER THAN MC PRODUCTS AIR RELIEF FITTING ARE STILL REQUIRED TO INSTALL THE MC AIR RELIEF FITTING WITH A MC SERIES 2000 PVC FACTORY VENTED SENSOR.

REVOLUTION DATE: 12/12/2011