ROCON LLC DeltaPoint® Manifold

FLOW RANGE: TWO SENSOR MODEL - Gun & Transformer .6-12 GPM (2.3-45 LPM)

THREE SENSOR MODEL - Gun .6-6 GPM, Transformer .3-6 GPM (GUN 2.3-23 LPM, 1-23 LPM)

MAX PRESSURE: 190 PSI (13 BAR)



Three Sensor Model



Description

The DeltaPoint Manifold is available in two models. A model with two flow sensors and a model with three flow sensors as shown above. The two flow sensor model senses cooling water flow to and from the weld gun & transformer on a common circuit. The three flow sensor model offers an additional flow sensor to sense transformer flow on its own dedicated circuit. No need for an external flow sensor. Faster reaction time in comparison to traditional transformer thermal switches. Cooling water flow for both weld gun and transformer are displayed on the LCD screen.

Features

- Modular Manifold Design no need to disconnect plumbing to replace the water saver
- Sensor has no moving parts to wear, break or cause nuisance tripping
- Gun flow, transformer flow and temperature displayed on LCD screen
- User adjustable setpoints: Flow, Leak, Temperature Alarm, Response Time, Restart Delay
- · Flow displayed in GPM or LPM
- Temperature displayed in degrees F or C
- Bypass available both electrical and mechanical
 Available Communications Protocals: Ethernet/IP,
- Profinet or Devicenet
 Includes USB port: firmware updates / logging flow
- Includes USB port: firmware updates / logging flow data for troubleshooting
- Graphical User Interface available for remote display and set point adjustment
- Available with the Venturi WET System Option -No water on plant floor during cap change

Unit Specifications

General

- · Pressure Drop: See chart on the last page
- Differential Pressure Limits: 5-80 PSID (0.3-5.5 Bar)
- · Maximum Operating Pressure: 190 PSI (13 Bar)
- Fluid Temperature Limits: 35-210°F (2-99° C)
- Ambient Temperature Limits: 32-122° F
- Weight: Two flow sensor model 13Lb (5.9Kg)
 Three flow sensor model 15Lb (6.8Kg)
- · Wetted Material: Brass and PVC
- Electrical Enclosure: Aluminum
- Air Operated Shut Off Valve available
- Porting: 34 NPTF or BSPP

Flow / Temperature Sensors

- Accuracy: ± 2% Full Scale
- · Repeatability: ± .25% of actual flow
- Response Time Flow: 1 second to 63% of flow change
- Response Time Temperature: 1.8 seconds
- Material: Flow Sensor PEEK,

Temperature Sensor - Brass

Solenoid Valve

- · Style: Diaphragm, 2-way pilot operated, NC
- CV: 8.4
- Mechanical Bypass: Standard
- Response Time: 1-1.5 seconds to shut off water. Length of hose run from unit to weld gun affects response time
- Material: Forged Brass
- Seal: NBR (Buna N)

Check Valve

- Style: Inline Check Valve
- Material: Brass
- · Seal: NBR

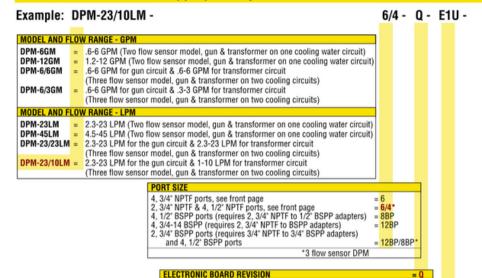
Electrical Specifications

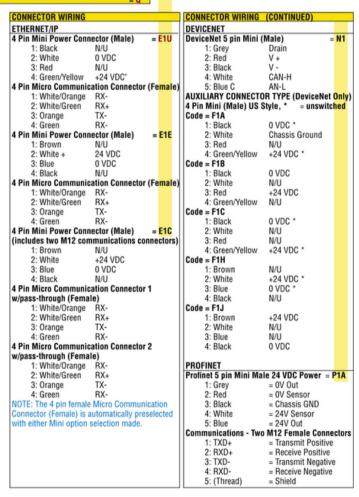
· Ethernet, Profinet or DeviceNet

DPM08052021



HOW TO ORDER Select appropriate symbols and build a model code number, as in example shown:





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FE19 - F - V1-V3-G-R3

FIRMWARE OPTIONS		
ETHERNET/IP		
12 GPM (2) flow sensor model - I/O byte config 4/1	= F	E12
12 GPM (2) flow sensor model - I/O byte config 25/17, 2 temperature sensors		E13
12 GPM (2) flow sensor model - I/O byte config 4/1		E15
23/10 LPM (3) flow sensor model - I/O byte config 8/5		E16
12 GPM (2) flow sensor model - I/O byte config 8/5		E17
12 GPM (2) flow sensor model - I/O byte config 6/4		E18
23/10 LPM (3) flow sensor model - I/O byte config 8/5 with drawback code		E19
12 GPM (2) flow sensor model - I/O byte config 4/1 with Venturi timer code		E20
12 GPM (2) flow sensor model - I/O byte config 4/1 with Venturi timer code	= F	E21
DEVICENET		
12 GPM (2) flow sensor model - I/O byte config 4/1 with Venturi timer code	= F	N20V
12 GPM (2) flow sensor model same as FN11 with added 30 sec start up delay		
and Roman interface		N24
12 GPM (2) flow sensor model same as FN16 with added 30 sec start up delay		N25
12 GPM two flow sensor model Proteus compatable		N26
23/10, 23/23 LPM (3) flow sensor model I/O byte config 8/5	= F	N28
PROFINET		
12 GPM (2) flow sensor model I/O byte config 4/1	= F	P10
12/6 GPM (3) flow sensor model I/O byte config 10/7		P11
12 GPM (2) flow sensor model		P12
12 GPM (2) flow sensor model I/O byte config 4/1	= F	P13

WATER SAVER SETTING Factory Standard Water Saver Settings User Supplied Water Saver Settings = F = U DPM Factory Standard Settings for model DPM-12GM (Single Circuit) User Menu = 4 GPM/15 LPM = 2 GPM/7.5 LPM = 1 GPM/3.7 LPM = 100° F/37° C = 65° F/18° C Flow OK Min Flow Leak Rate DPM Factory Default Settings for Model DPM-6/6GPM (Dual Circuit) User Menu = 2 GPM/15 LPM = 2 GPM/7.5 LPM = 1 GPM/3.7 LPM Gun Transformer Leak Rate Restart Delay = 5 seconds DPM Factory Default Settings for Model DPM-6/3GPM (Dual Circuit) User Menu = 2 GPM/15 LPM = 2 GPM/7.5 LPM = 1 GPM/3.7 LPM Gun Transformer Leak Rate Restart Delay = 5 seconds

OPTIONS	
No Options Selected	= N
SMC 500 ML Drawback Air Cylinder mounted to a sub plate	
(DPL only at this time)	= CS5
Venturi System Model 4, Internal Timer Dual Vacuum Ports	= VIT4.1D
Poppet Style Check Valve	= V1
Flapper Style Check Valve	= VX
Air Operated Shut Off Valve	= V2
2- 3/4" Ball Valves	= V3
External Ground Lug	= G
Sheet Metal Flow Settings	= SM
Aluminum Flow Settings	= AL
Shut Off and Check Valve Assembled on Top	= Y
Drawback Receptacle Added to the Enclosure	= R3
Two Temperature Sensors (Flex-N-Gate)	= DT
4 Port - Quick Change Fittings - 4- 3/4"	= QC1
6 Port - Quick Change Fittings - 2- 3/4" & 4- 1/2"	= QC2



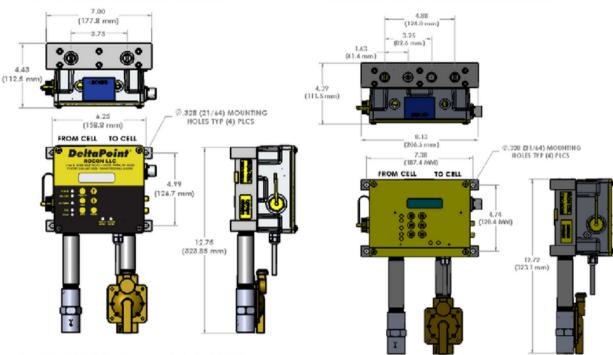
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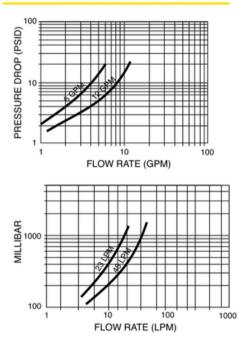
DIMENSION DRAWING

TWO FLOW SENSOR MODEL

THREE FLOW SENSOR MODEL



UNIT PRESSURE DROP CHART



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NOTE: Cables for all versions are available. See product manuals for details.

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