

RM140W Overfill Protection Rack Monitor

Overfill protection and grounding monitor for truck or rail loading in petro-chemical applications.

Built to function with all probes designed to the API code: API RP 1004 and the EU Standard EN13922, the RM140W Series is the world's most flexible and adaptable monitor.

The RM140W provides a fail-safe, state-of-the-art overfill protection and grounding monitoring system that is compatible with all commonly used overfill protection and grounding systems.

Key Features

- Automatic sensing of 2-wire/thermistor or 5-wire overfill systems, no manual switching or inspection required
- Supports up to (8) 2-wire/thermistor probes and up to (12) 5-wire probes
- High-output display visible in direct sunlight, provides flexibility for indoor/outdoor use
- Coded wireless by-pass key for secure and reliable operation
- Self-test at start up/continuous self-monitoring, ensures safety throughout the loading process
- Separate grounding and overfill control outputs
- Compact and functional design is easy to install, perfect for tight spaces or crowded work areas
- Global electronic compatibility, able to operate on almost any electric service
- RM100 is directly compatible with PD100 Probe Doctor as a "plug-in replacement"



Models

- RM140W - RM100 Electronics in a 100mm (4") deep enclosure

Certification & Compliance

- Type of Protection: Explosion-proof enclosure for Group II, Zone 1, Ex d [ia]
- IEC Certificate: IECEx TSA 05.0049X
Marking: Ex d [ia] IIB T6 (Tamb=60oC) IP66
- ATEX Certificate: DEMKO 06 ATEX 140833X
Marking: 0518 II 2 (1) G
EEx d [ia] IIB T6 Ta = -20°C to 60°C
- EU Directives: 73/23/EEC & 93/68/EEC (Low Voltage)
94/9/EC (ATEX)
89/336/EEC (EMC)
2002/95/EC (RoHS)
Compatible with EN13922

- FM Approval: Marking:

FM Approved for US and Canada.
Explosionproof with I.S. Outputs
Intrinsically Safe Sécurité
Intrinsèque Exia
Class I, Division 1, Group C & D, T6
Ta = -25°C to 60°C



RM140W Overfill Protection Rack Monitor

Electrical

Power	240V Operation	110V Operation
Minimum Input Voltage:	185VAC	85VAC
Maximum Input Voltage:	275VAC	135VAC
In-rush Current:	2.2A	2.3A
Maximum Current:	400mA	400mA
Normal Power Consumption:	8.6W (No probe) 20W (8x 2-wire probes)	8.6W (No probe) 20W (8x 2-wire probes)
Mains Power Fuse Rating:	250V, 400mA anti-surge 1500A Breaking Capacity	250V, 400mA anti-surge 1500A Breaking Capacity

Intrinsically Safe Signals

Nominal Voltage:	10.5V, 13.02V Max
Nominal Current:	116mA, 121mA Max
Relay Outputs:	Overfill Monitoring Relay
Relay Contacts:	Common, Normally Open, Normally Closed
Maximum Contact Voltage:	250VAC
Maximum Contact Load:	5A (resistive), 2.5A (inductive)
Relay Fuse Rating:	250V @ 5A anti-surge

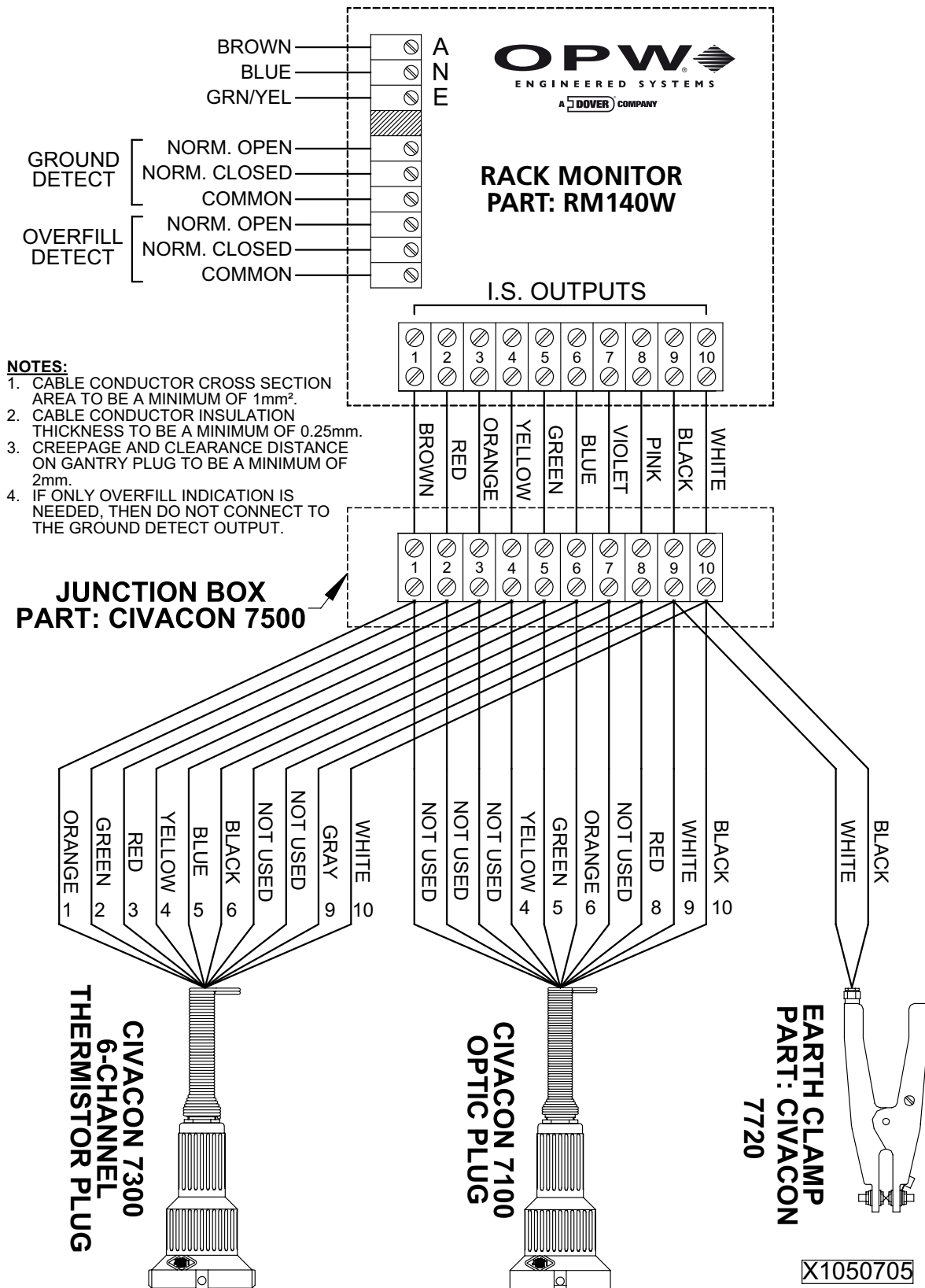
Mechanical

	Standard	Metric
Width	12.8"	324mm
Height	13.4"	340mm
Depth	13.4"	170mm
Weight	36.37 lb	16.5 kg
Material	Aluminium Housing Base and Cover, Laminated Glass Window	

Parts & Accessories

Part Number	Description	Part Number	Description
6987	Fuse 400mA, 250VAC anti-surge, 1500A Breaking Capacity	6983	RM140W Bypass Fob
5542	Fuse 5A @ 250VAC anti-surge	7500	Civacon Junction Box
6985	RM100 Safety Ground Harness	7300	Civacon 6-Channel Thermistor Plug
RM100-3	RM100 Aluminium Safety Barrier	7100	Civacon Optic Plug
RM100-4	RM100 Polycarbonate Terminal Cover	7720	Civacon Earth Clamp with Straight Cable
RM100-5K	RM100 PCB Assembly Complete Kit (RM100-5 + 6959 Display)		

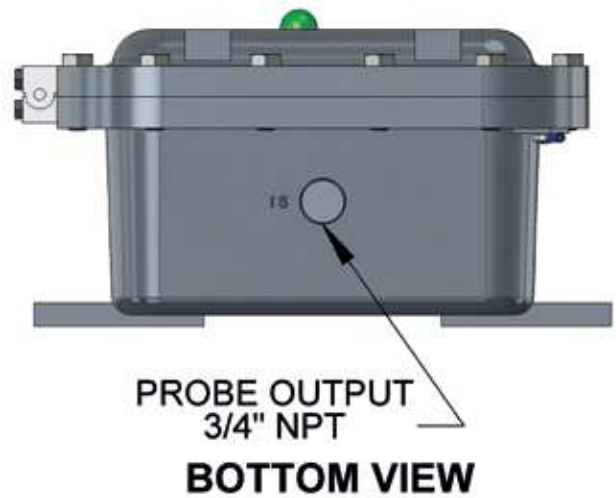
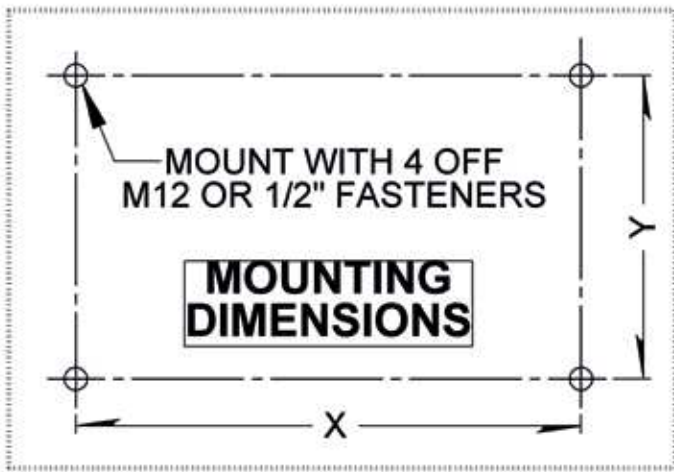
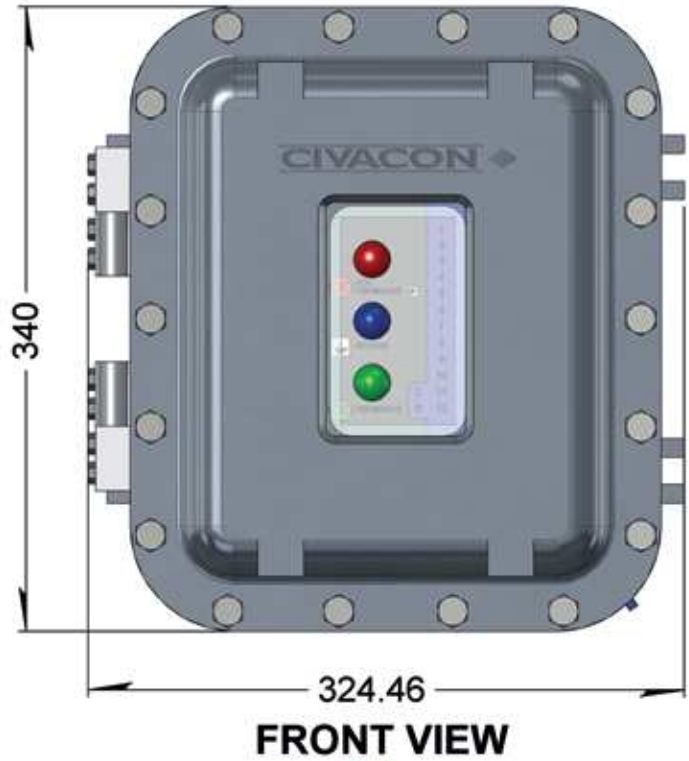
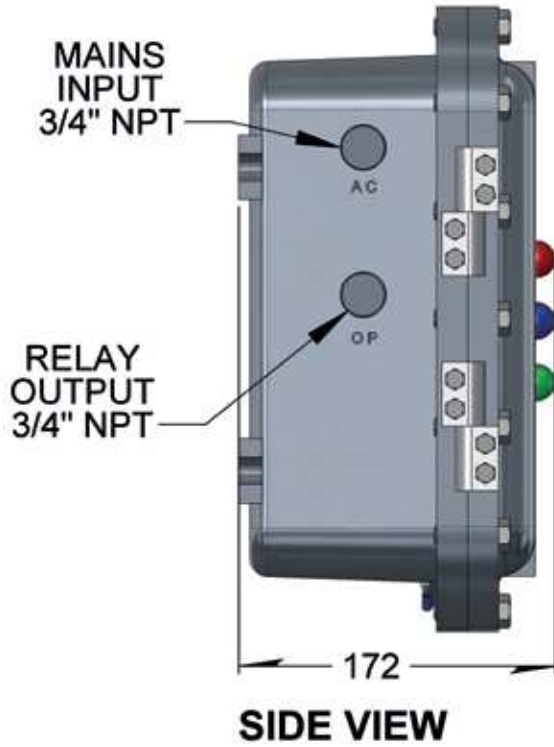
RM140W to Civacon Gantry Plug Earth Clamp Wiring Diagram



X1050705
Issue: F

RM140W Overfill Protection Rack Monitor

Dimensions



Model	X	Y	Z
RM140W	11.2" (285mm)	6.5" (165mm)	6.7" (170mm)
RM160W	10.8" (275mm)	6.5" (165mm)	8.7" (220mm)