



SCULLY TANKER LOADING SYSTEM & RACK MONITOR

Item code: SCULLY

The RM140 is a world leading overfill protection & grounding monitor for petrochemical loading, road, rail, and food applications. Built to function with all probes designed to the API code, API RP 1004 and the EU Standard EN13922, the Liquip RM140 Series is the world's most flexible and competitive monitor.

FEATURES:

- Grounding and/or Overfill Monitor in one competitive package
- Separate ground indicator light.
- Auto sensing of 2 or 5 wire systems.
- Supports up to 8 two wire probes and up to 12 five wire probes.
- Ultra high visibility display visible in direct sunshine.
- Full sensor diagnosis at a glance.
- Keyless bypass (RFID) allows unique ID recording with no batteries required.
- Built in 110 & 240 voltage selection.
- Built in 6 or 8 channel selection.
- Self test function at start up & via RFID fob.
- Upgradeable software to allow for additional features.

Approvals:

- IECEX, ATEX, FM, API RP1004.
- Built to comply with EN13922.
- Will function with all probes designed to EN13922.
- Up to Hardware SIL 1 capable.

Materials of Construction:

- Explosion proof aluminium housing base & cover.
- Laminated glass window.

COMPONENTS:

Code	Description
RM140	Rack Monitor
GP104	Gantry Plug and Lead



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
- Max: Contact Voltage: 250 Vac
- Max: Contact Load: 5 A (resistive), 2.5A (inductive)
- Relay Fuse Rating: 250V @ 5A anti-surge

MECHANICAL:

- Width: 324mm (12.8")
- Height: 340mm (13.4")
- Depth: 170mm (6.7") – RM140
- Weight: 16.5 kg
- Material: Aluminium housing base & cover, Laminated glass window.

ELECTRICAL:

Power	240V	110V
Min Input Voltage	185 Vac	85 Vac
Max Input Voltage	275 Vac	135 Vac
In-rush Current	2.2 A	2.3 A
Max Current	400mA	400mA
Normal Power Consumption	8.6W (No Probe) – 20W (8 x 2 wire probes)	8.6W (No Probe) – 20W (8 x 2 wire probes)
Mains Power Fuse Rating	250V, 400mA anti-surge – 1500A Breaking Capacity	250V, 400mA anti-surge – 1500A Breaking Capacity

ASSOCIATED EQUIPMENT:

Code	Description
6983	Wireless FOB Bypass key for RM140.
6987	Fuse 400mA, 250Vac anti-surge, 1500A Breaking Capacity
5542	Fuse 5A @ 250Vac anti-surge
6985	RM100 Safety Ground Harness
RM100-3	RM100 Aluminium Safety Barrier
RM100-4	RM100 Polycarbonate Terminal Cover
RM100-5K	RM100 PCB Assembly Complete Kit (RM100-5 + 6959 Display)
GP103	3 Bayonet Gantry Plug
GP104	4 Bayonet Gantry Plug
GP204U	4 Bayonet Gantry Plug screened cable, complies with EN13922
JB100	Junction Box with 2 threaded gland entries
JB103	Junction Box with 3 threaded gland entries
EAC201	Earth Clamp
HTA204	Two-wire Optical Hand Tester
HTA503	Five-wire Optical Hand Tester
LDP202	Two-wire Level Detection Probe
LDP205	Five-wire Level Detection Probe

PETRO INDUSTRIAL



petroind.com



COMES WITH GP104 GANTRY PLUG:

- PETRO gantry plugs are an industry standard 3 or 4 pin bayonet plug and they connect gantry systems to a tanker.
- Gantry plugs are designed for use with common industry monitors and vehicles as well as PETRO RM140 "Overfill Monitor".
- Cater for up to 8 compartments with 2-wire probes.
- Cable is ten-cores self-coiling (8m reach) with petroleum-resistant outersheath, Blue.
- Supplied with a M25 cable gland and junction box is supplied with an adaptor 3/4" NPT. This allows interchangeability for spare parts.

Cable parameters

- Capacitance $C = 1.1 \text{ nF}$
- Inductance $L = 12 \text{ } \mu\text{H}$
- Inductance/Resistance Ratio $L/R = 35 \text{ } \mu\text{H}/\Omega$.

Materials

- All materials are non-static producing.

Weight

- 3.5kg.