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LIQUIP MONITOR FOR OVERFILL AND GROUNDING

DATA SHEET

PART N°: PD501 SERIES

- TITLE:** Multi-purpose monitor. Use for 5-wire probe overfill protection: also use for ground assurance: also incorporates a single channel for 2-wire probes for railcar filling: or combination of these.
- PURPOSE:** A single monitor per gantry now provides overfill protection combined with ground assurance to offer lowest capital cost with simple and cheap installation wiring. Compatible with all common probes.
- OPERATION:** Output from the monitor is a single triple-ganged relay signal to provide a go or no-go control for operation of the gantry or tank farm. Indication is by red or green lamp and a lockable by-pass switch is standard. Truck plugs may be standard or optic style. Ground assurance connector may be via truck plug, or ground ball socket, or 'crocodile' clamp.
- SPECIFICATION:** Explosionproof housing for Zone 1, monitoring signals intrinsically safe Zone 0. Power supply 240VAC or 110VAC. Output (control) relay triple-ganged for reliability, normally open, volt-free rated at 5 amp 240V (if power output is required, contact Liquip). Lockable by-pass switch to enable loading in emergency. Cable entries 3/4" NPS, adaptors to 25mm conduit thread available. Shutdown response time 0.5 seconds for all fault conditions. All model variants are factory set and tested, however site changes are easily carried out as it is controlled by wiring changes on output terminal strip. Therefore only one monitor design is required throughout the terminal and tank farm.
- SAFETY CERTIFICATION:** ATEX Certificate: TRL03ATEX11007X
Marking: EEx d [ia] IIB T6
 0518  II 2 [1] G
- Parameters: $U_o = 17V$, $I_o = 179mA$, $C_o = 1.8\mu F$, $L_o/R_o = 200\mu H/\Omega$
- VARIANTS:** Simple linkages provide the following variations of the same monitor:
5-wire probe overfill monitor
2-wire probe overfill monitor single channel
Ground assurance monitor with crocodile clamp
Overfill monitor with ground assurance wired through truck plug
Overfill monitor with separate cable (clamp or ball type) for ground assurance
All the above in 110VAC or 240VAC power supply
- MOUNTING:** See attached diagram.
- SERVICE:** Self-calibrating, no adjustments required. One solid-state board with plug-connector for quick site change-over.
- MATERIAL OF CONSTRUCTION:** Aluminium housing. Explosion proof polycarbonate lights and switch.
- WEIGHT:** 8 kg.
- ASSOCIATED EQUIPMENT:** LDP102, LDP105, AGP202 & AGP205 optical probes.
See data sheet for accessories for monitors. Includes junction box for intrinsically safe cabling. Optic and standard gantry plugs and self-store cable. Crocodile clamp and self-store cable for grounding. Ball socket and self-store cable for grounding.

Overall dimensions shown on the drawing overleaf.

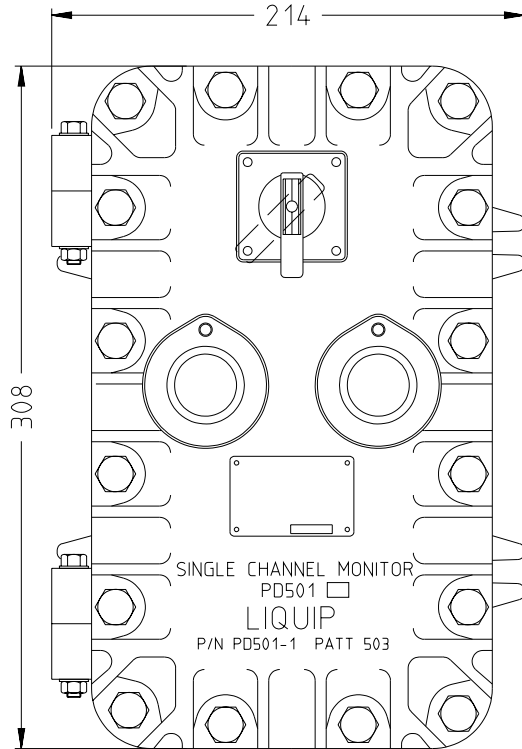


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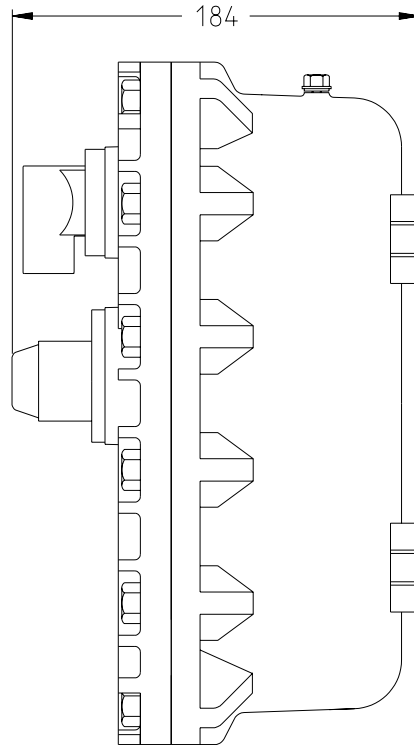
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PD501 SERIES

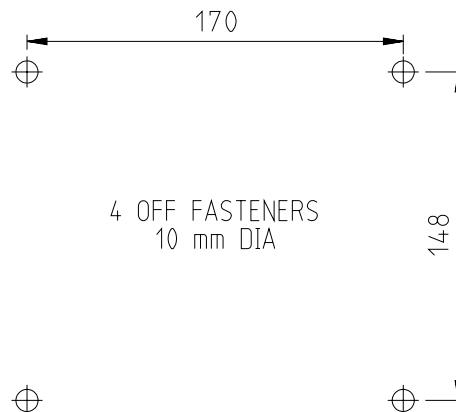
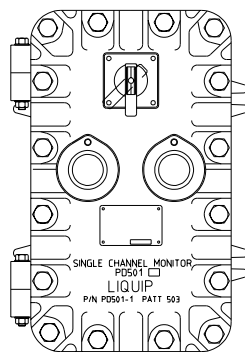


ELEVATION



END ELEVATION

240V/110V AC POWER SUPPLY ↓ ↑ TO OUTPUT RELAY



4 OFF FASTENERS
10 mm DIA

NOTE:
ALL PORTS
3/4" NPS

↓ INTRINSICALLY SAFE
SIGNAL TO TRUCK PLUG

X952296

Issue: C

METERS - VALVES - VENTS - MANHOLES - PUMPS - HOSEREELS - OVERFILL PROTECTION - LOADING ARMS - ELECTRONIC DIPSTICKS



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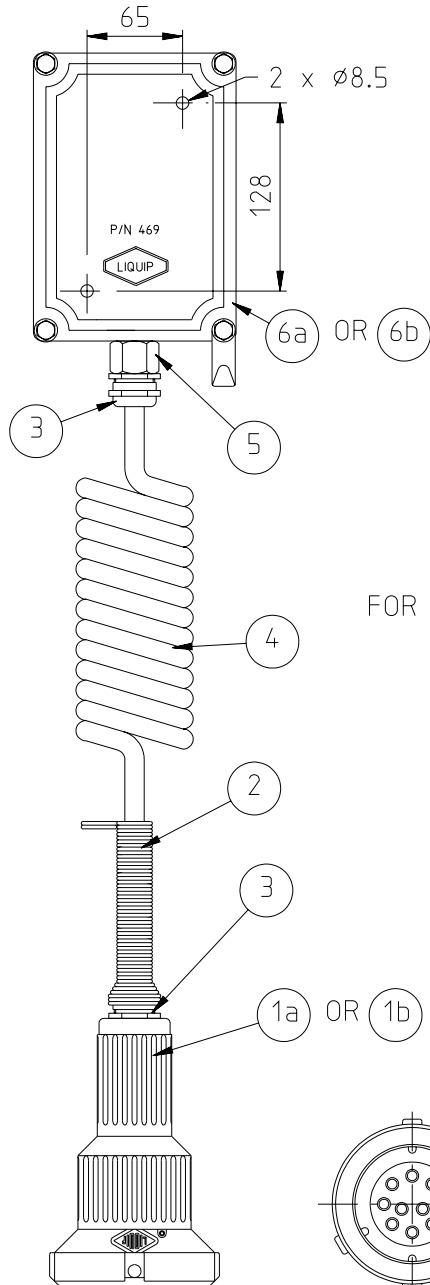


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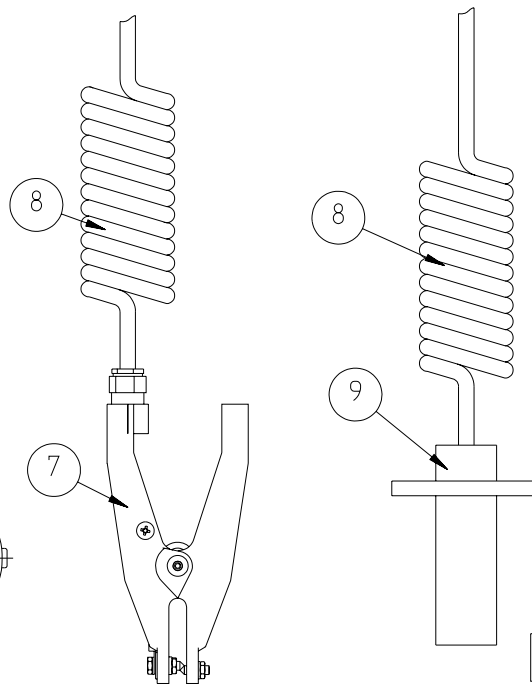
PD501 ACCESSORIES



ITEM	PART NO	DESCRIPTION	MATERIAL
1a	GP103-3	PLUG BODY SUB-ASSEMBLY 3 PIN	POLYURETHANE
1b	GP104-4	PLUG BODY SUB-ASSEMBLY 4 PIN	POLYURETHANE
2	4477	SPRING	ST STEEL
3	6885	CABLE GLAND	N/P BRASS
4	5115	CABLE - SELF STORE	ELECTRICAL
5	7191	ADAPTOR	BRASS
6a	JB100	JUNCTION BOX ASSEMBLY (2 x 3/4" NPS PORTS)	ALUMINIUM
6b	JB103	JUNCTION BOX ASSEMBLY (3 x 3/4" NPS PORTS)	ALUMINIUM
7	EAC202	EARTH ASSURANCE CLAMP SUB-ASSEMBLY	ALUMINIUM
8	56060	CABLE - SELF STORE	ELECTRICAL
9	GBP100	GROUND BALL PLUG	ST STEEL

GP103 (ITEMS 1a,2,3 & 4) USED FOR 5 WIRE PROBES
 GP104 (ITEMS 1b,2,3 & 4) USED FOR 2 WIRE PROBES
 JUNCTION BOX (ITEMS 6a OR 6b & 5) ARE OPTIONAL
 EAC202 (ITEMS 7 & 8) USED FOR GROUND ASSURANCE
 GBP100 (ITEMS 8 & 9) USED FOR GROUND ASSURANCE
 WITH SCULLY GROUND BALL

FOR WIRING DIAGRAMS SEE PD501 INSTALLATION MANUAL



GP104 SHOWN
 (FOR GP103 SEE PARTS LIST)

X950097

Issue: H

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