DFV102

Electronic Register

The DFV102 is the latest in Liquip's range of electronic registers. It will replace the EMH500H and EMH600RP.

During delivery, flowrate, volume delivered, temperature reading and meter number can be displayed. When delivery is finished a delivery report or management ticket can be printed with the press of a button. (Ticket printer optional).

Key Features

- Safety Approved for use in Zone 2 (IEC)
- Weights & Measures NMI Approved Australia and New Zealand
- Connection to electronic ticket printer
- Electronic calibration
- Non-linearity correction
- Temperature correction
- Non volatile memory for storing set parameters
- Operates on 12 or 24 volt installations
- Large display to read flowrate, batch quantity and corrected volumes at the same time
- Backlit display for ease of reading in low light

- Same menu system as EMH 600/ 500 for ease of operation with operators already familiar with Liquip registers
- More intuitive set up and programming
- CAN output for rapid communication with external device
- Piezoelectric buttons for reliability
- Micro SD card for easy software upgrade
- Preset functionality / batch control
- Solenoid outputs are voltage free and can perform a 2 stage ramp up and ramp down of the fluid flow
- Pulse output can be programmed as optional third relay
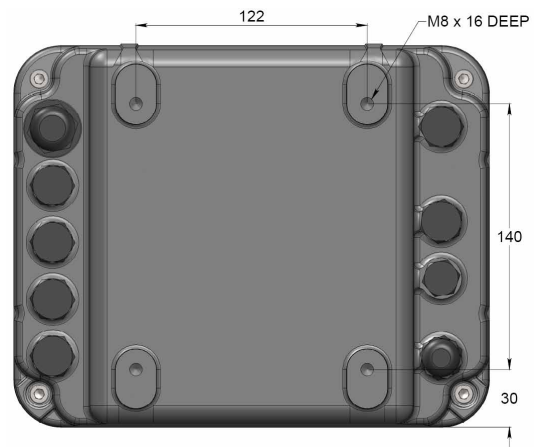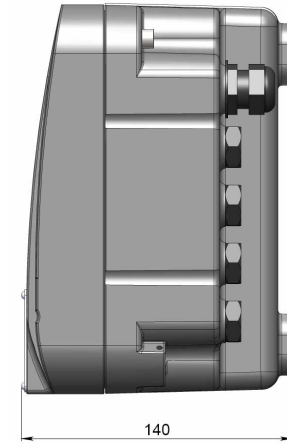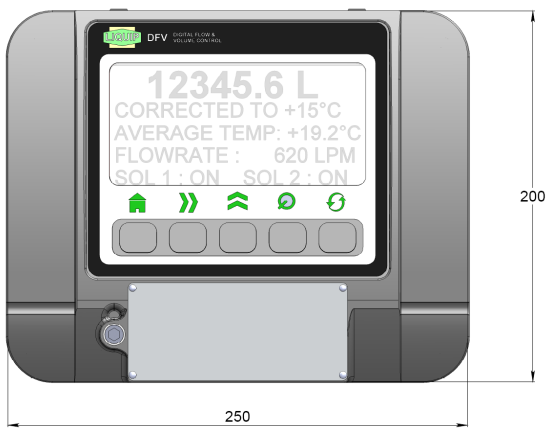
Associated Equipment

ERP200 Remote Pulser

Technical Information

Size	Approx, 245 x 200 x 140mm
Displays	1 line x 14 characters 14 mm high and 4 lines x 24 characters 8 mm high
Power Input	9 to 32Vdc (safety approved) or 9 to 45V (operational) @ 250mA polarity protected. In-line fuse (rated 3A, antisurge) is strongly recommended
Operating Temperature	-20°C to +60°C (safety approved)
Temperature Correction	-40 to +60°C for all petroleum products. Extended ranges available according to local regulations
Temperature Probe	Pt100 class A, 3 wires
Ingress Protection	IP66
Product Density	0.500 - 0.600kg/L for LPG, 0.653 - 1.075kg/L for other products
Weight	Approx. 6kg
Communication	Two RS232C ports to be used to communicate with a PC or other serial device such as a modem or printer. One CAN port.
PC	Software is written for Touch-PC on-line communication. Commands that can be interrogated include resetting the meter and requesting the current delivery quantity. See software section for detail.
Printer	Epson CTM-290 or TM-295, Blaster Printer.
Pulse Input	Will accept 3-channel pulses of 60° phase shifted, from ERP200 pulser, dual (quadrature) or single pulse (reed or open-collector) from third-party pulsers.
Pulse Output	Open drain, active-low output, signal calibrated to 10 pulses/litre, where the pulse frequency can be set up to either 400Hz or 2kHz max. (with fixed pulse duration 1.25 ms or 0.25 ms respectively).
External Reset	This is an input/output signal.
Relay Outputs	Up to 2 Relay Outputs. Current sink, 3A max. Solenoid to be connected between this output and the positive of the power supply. Additional in-line fuse (3A, antisurge) is strongly recommended.
Program Memory	microSD card

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DATASHEET

Mounting Instructions
*Bracket Required

200

250

140

122   M8 x 16 DEEP

140

30

For mounting instructions for specific meters please contact your local Liquip representative.