OPLC DPCO Irrigation Pump Pressure Control



- **Automatic control of diesel** pump demand pressure
- Specifically designed for engines driving multiple irrigators
- **Reduces capital and** running costs

Description

The OPLC DPCO (shown above right) is a variant of the OPL series 4.5 inch/114mm pressure Swichgage®. The gauge face includes adjustable high and low pressure limit contacts: the visible contacts have a self-wiping action for positive electrical switching. The DPCO model includes a dual-pole front facia switch that allows manual selection of START (idle) or RUN (active) throttle control modes.

The OPLC DPCO uses a cast aluminium, weatherproof case, with a hinged front for inspection and wiring connection. Pressure hose connection is via a 1/4" NPT fitting in the base.

Application

The OPLC DPCO is typically used with a Murphy AT-03069 throttle controller (shown above left) to maintain pressure in an irrigation pump system. The AT-03069 has is a heavy duty throttle controller with high torque, solid state switching and an electronic clutch, making it ideal for many automatic and semi-automatic engine systems: for full details see document AT-04052B.

The AT-03069 receives high or low pressure signals from the OPLC-DPCO (see overleaf for typical electrical connection), and throttles the engine in response. The combined system has been designed to maintain near constant pressure, even when the engine is driving multiple irrigation systems.

Murphy also recommend the connection of a Murphy PD8183 pulsation dampener in the pressure line to eliminates pointer flutter.

Product specification

Case: material die-cast aluminium paint finish polyurethane, red weatherproof, NEMA 3R sealing process connection 1/4" NPT Movement: dial 4.5 in. (114mm) scales white text on black background 0 - 20 Bar 0 - 200 PSI / 14 bar 0 - 300 PSI / 20 bar sensing element Bourdon C-tube. grade A phosphor bronze ±1% for middle half of scale, accuracy ±2% for first and last quarters geared movement 302 and 304 stainless steel lens optically clear polycarbonate pointer high visibility with a pointer calibration hub 2A @ 30 VDC contact/circuit rating

General:

maximum ambient temperature 150°F / 66°C approximate shipping weight 2.5 Kg electromagnetic compatibility to 89/336/EEC



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MACQUARRIE CORPORATION

1A @ 125 VAC

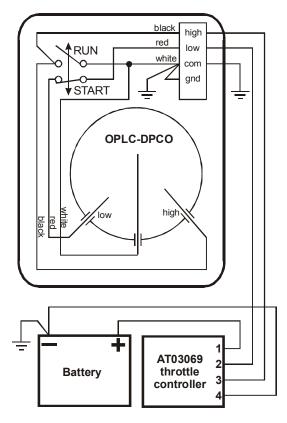
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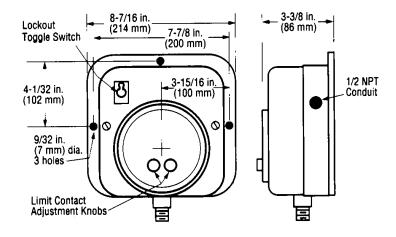


USA - ISO9001:2000 FM 28221

Electrical connection



Dimensions



How to order

Model/stock ref. Description

OPLCDPCO 20BAR 1/4" NPT, 0 - 20 Bar scale

1/4" NPT, 0 - 200 PSI/14 Bar scale OPLCDPCO 200PSI

OPLCDPCO 300PSI 1/4" NPT, 0 - 300 PSI/20 Bar scale

Additional equipment:-

AT03069 Throttle controller, 12/24 VDC

PD8183 1/4 X 1/4 Pulsation dampener, 1/4" NPT fittings

Warranty

A two year limited warranty on materials and workmanship is given with these Murphy product. Full details are available on request and at www.fwmurphy.co.uk/warranty.

Further information

Document	Title
OPL-96001B	OPL series Swichgage® bulletin (full range)
OPL-9109N	OPL series Swichgage® installation
AT-04052B	AT-03069 throttle controller bulletin
AT-04060N	AT-03069 throttle controller installation
PD-95145B	PD8100 series pulsation dampener bulletin



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