

PUMP STATION LIQUID LEVEL CONTROL



27781-048 INTEGRINEX STANDARD

Electronic Pressure Switch

INTEGRINEX STANDARD SPECIFICATIONS

OVERVIEW

Measures, controls and displays liquid level in a sewage wet well application. Accepts a variety of level measurement inputs including air bubbler, submerged transducer, ultrasonic or any standard instrumentation electrical signal. Switches up to 3 pumps and/or multiple alarms. Inputs configurable for pump and/or alarm status indication. Outputs configurable as start/stop or alarm. Configurable Analog output. Selectable automatic alternation. LCD display and keypad for setup and operation. Super-bright status LEDs.

HARDWARE SPECIFICATIONS

Power Supply:

12 Vdc @ 500 mA., 24 Vdc @ 300 mA.

Inputs:

Digital Input: 11 optically isolated inputs 10 mA @ 24 Vdc. Inputs are programmable for various pump and alarm statuses.

Analog Input: Scalable and selectable 0–5 Vdc, 4–20 mA external input or integral air bubbler transducer.

Integral Transducer: 0–14.5 psi (0–33.3 ft. w.c.), 50 psi overpressure, +/-2.5% repeatability.

Outputs:

Digital Outputs: 8 mechanical relays, 3 relays 12 Amp @28Vdc and 12 Amp @120Vac; 5 Relays 3 Amp @30Vdc and 3 Amp @120Vac.

Status LEDs for output indication.

Non-replaceable relays wired to reusable terminal blocks.

Analog Output: 1 scalable over the full calibrated range. Selectable 0–5 Vdc, 0–10 Vdc, 4–20 mA. Impedance for 4–20 mA max load 1k ohms @ 24Vdc, 400 ohms @ 12 Vdc.

Display:

128 x 64 resolution LCD with white LED backlight.
4 sunlight-viewable status LEDs.

Memory:

Non-volatile.

Accuracy:

Output switching repeatable within one digit of displayed value (one tenth foot).

Ambient Conditions:

Operating 14°F to 131°F (–10°C to +55°C), Storage –4°F to +158°F (–20°C to +70°C).

Housing:

Panel mount, IP54 and IP56 rated.
Closed cell Neoprene blend gasket material.
Black FR Polycarbonate case material.

Certification:

Evaluated by Underwriters Laboratories for Pollution Degree 2 Device; UL, cUL.

Clock:

Battery backed real time clock.



FUNCTIONAL SPECIFICATIONS

Pump Control:

Outputs will control start and stop levels of up to 3 pumps and/or multiple alarms. Outputs permit control of engine driven pumps. Automatic alternation selectable for two or three pumps. Includes excessive run time alternation of duty pump. Manual override of pump alternation. Control includes adjustable pump start/stop delay.

Alarms:

Built-in low water and high water alarms.

Simulation:

Level simulation of inputs allows testing of pumps and alarms.

Analog Output:

May be used as a follower speed command for adjustable frequency drives or as a level signal for SCADA or chart recorders.

Units of Measure:

Displays level values in feet or meters.

Security:

Set-up is protected by adjustable supervisor password.

Other Features:

Anti-septic operation, pump start-fail alarm, alarm banners with time/date history, adjustable time delays, alarm light test.



GORMAN-RUPP PUMPS

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Specifications Subject to Change Without Notice

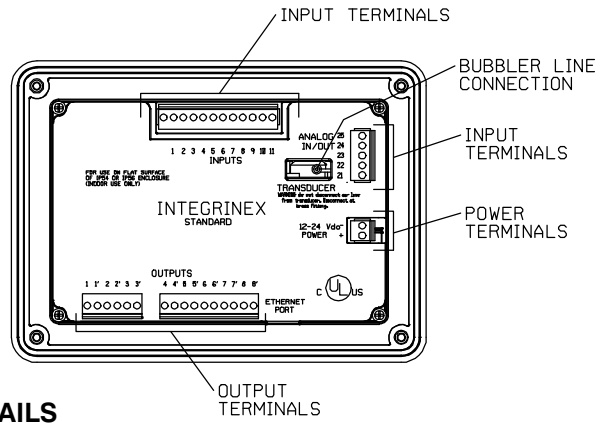
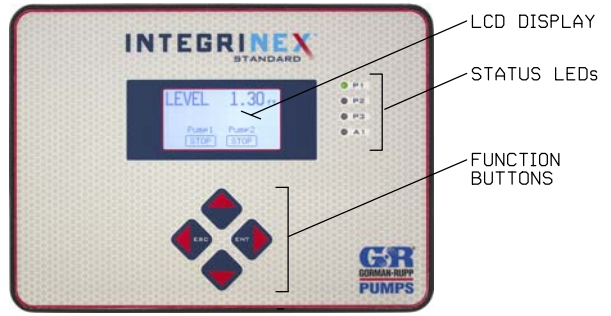
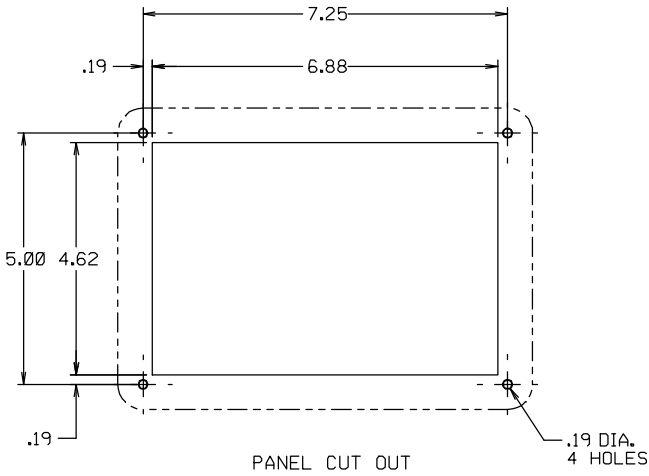
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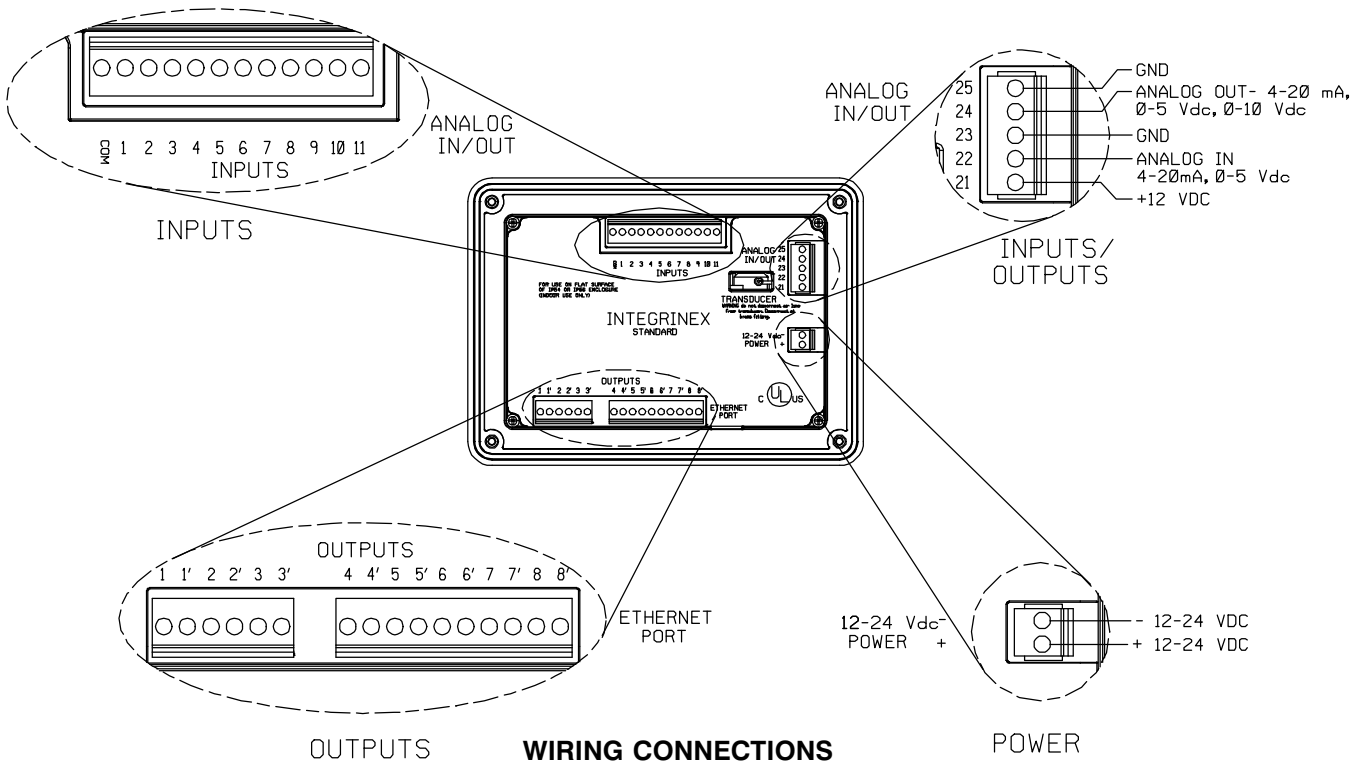
APPROXIMATE DIMENSIONS and WEIGHTS

NET WEIGHT: 3.6 LBS. (1,6 KGS)
SHIPPING WEIGHT 8.0 LBS. (4,1 KGS)

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MOUNTING DETAILS



WIRING CONNECTIONS



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