

IO MAX™: Complete Wireless Wellhead Solution



APPLICATION DRAWING

HIGHLIGHTS (IO MAX)

- Self-contained, multi-I/O solution (CID2)
- Monitor Casing, Tubing, and Surface pressure @ 5-second interval using 1-5 V pressure sensors (2 mA draw per sensor = 6 mA total with 1x spare AI remaining)
- Monitor plunger arrival sensor and counter function (Discrete Input: 2x available)
- With OleumTech® Solar option: 100-day autonomy w/o sunlight @ 10 mW Radio output, 60-day autonomy @ 100 mW Radio output - see power supply option below

Modbus Master EFM/Plunger Controller

Modbus (TCP/RTU)
LevelMaster ASCII
Ethernet/Serial



Wireless Gateway DH1/DH2/DH3

1. IO MAX™ collects/sends wellhead data to Gateway.

2. Modbus Master (Plunger Controller/EFMRTU/PLC) collects wellhead data via Gateway.



IO MAX Transmitter

WT-0900-MX1 (900 MHz)

WT-2400-MX1 (2.4 GHz)

Requires 9-24 VDC Ext. Pwr. If Not Using SX1000-SP2

Power Supply Option

Part #: SX1000-SP2

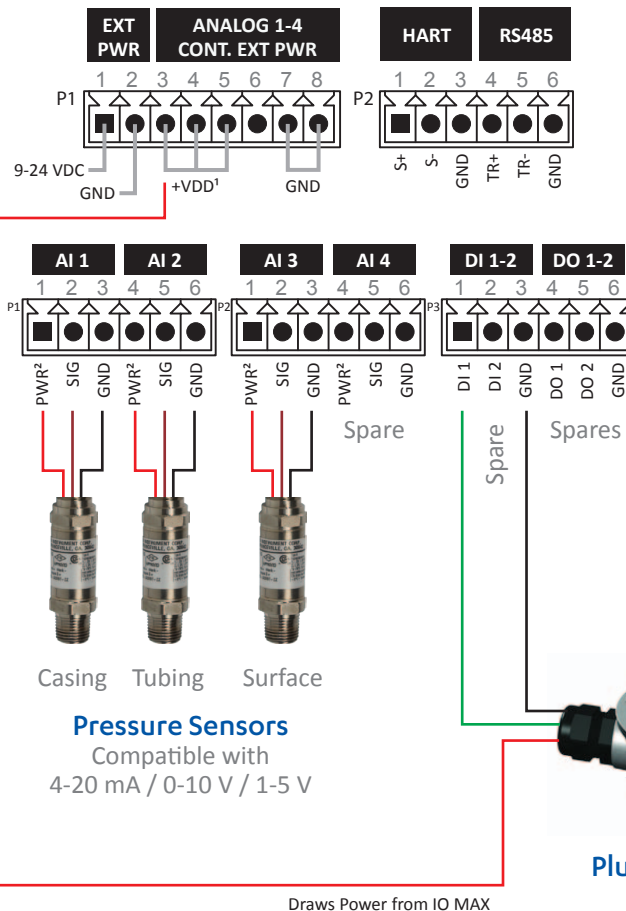
5 W 12 V Solar Rechargeable System
12-21 VDC Output

Provides up to 6.2 days of autonomy without sunlight when enabling Discrete Output option with ~12 valve open/close cycles per day 10 mW Radio Pwr (receiving mode)

Provides up to 100 days of autonomy without sunlight when Discrete Option is not enabled 10 mW Radio Pwr (sleep mode)

Requires ~18 hours of sunlight to fully charge batteries (11 to 12.8 V)

IO MAX Wiring Diagram



Pressure Sensors

Compatible with
4-20 mA / 0-10 V / 1-5 V

Plunger Arrival Sensor