

QSI ELECTRONICS INTERFACE BOARD



QSI ELECTRONICS INTERFACE

The FLOMEC® QSI I/O Board is a Multi-Functional Economical Unit designed to enhance product functionality and provide fully-featured communication protocols and process output signals for FLOMEC meters, as well as other flowmeter brands.

The fully-featured I/O board ships with a customized operating system to allow for downloadable upgrades and new feature developments.

Programming is easy and can be done using the FLOMEC app via the Bluetooth interface.



For Android
Operating Systems



FEATURES / BENEFITS

- Communication options available: Modbus®, RTU and BACnet® MS/TP
- Built-in Bluetooth® Wireless Technology
- External Programming FLOMEC® App available for Mobile Devices
- Receive in-field firmware updates
- Standard process outputs: Pulse out and 4-20mA

PROCESS VARIABLES

- Calculates flow and totals from pick-up coil or digital input pulses
- BTU (Heat) meter calculates energy from flow and temperature inputs (temperature probes must be customer supplied)

DISPLAYS & COMMUNICATION

**Energy Consumption can be displayed on the FLOMEC App, or transmitted out via RS485 or pulse out.*

Only one QSI option available

Q1

Bluetooth®, Coil/Digital Pulse Input, Pulse Output (Scalable Flow or Energy), RS485 (MODbus®, RTU or BACnet® MS/TP), Temperature Inputs, BTU (Heat) Calculator

Note: Temperature probes must be customer supplied

The FLOMEC® APP with BLUETOOTH® WIRELESS TECHNOLOGY

***NEWLY UPDATED FOR EASE OF USE**

Completely control the meter configuration from your mobile device. A Special Programming Interface for the QSI is FLOMEC's new application for Android devices. It's free and available for download from the Google Play store, just search for "FLOMEC".

- Monitor all measured data points
- Single page screens for easy set-up
- Allows GPI to develop new firmware and deploy to customers
- Makes in-field firmware updates a snap. Downloadable to the QSI using the built-in Bluetooth wireless connection

Just search for "FLOMEC"

QSI ADAPTERS & WALL MOUNT OPTIONS

The QSI Board and Housing can be retrofitted in the field for use with most FLOMEC® meters. NEMA 4X adapters and a wall mount option are available, to provide a compatible connection with the QSE Mag Meter, FLOMEC Turbine Series Meters (GSCPS, G2, TM or A1 Series) and FLOMEC OM Series Positive Displacement Meters.

The QSI Board and Housing are also compatible with many non-FLOMEC products. Any flow meter that has a pick-up coil or a digital pulse operating from 0 to 1000 pulses per second can be connected.



QSE Mag Meter

Standard - Pulse Out with QSI.

FLOMEC Turbine Meters

The QSI Board can be added to the following turbine meter products:

- G2 Series Industrial Grade meters
- TM Series Water meters
- GSCPS Series Precision meters

The GSCPS Series Adapter Kit comes with two adapter plates, o-ring and hardware; all other turbine meters come with one adapter plate, seal and hardware.

OM Positive Displacement Meters

The QSI Board can be added to OM Meters.

- Adapter Kit contains one adapter plate, o-ring and hardware
- Can use either the reed switch or hall effect sensor output from OM meter to QSI

Remote Wall Mount Panel Option

The QSI Board and Housing can be remotely mounted to a wall. It will accept the following input signals:

- Coil, Sine wave down to 5 mVpp
- Open Collector Pulse up to 36 V (dc) max

SPECIFICATIONS

Material:	
Cover Plate	Polypropylene
Adapter	Polypropylene
Voltage:	
Min to Max	12 - 36V (dc)
Max Current	125mA (dc)
Temperature:	
Operating	32° to 180° F (0° to 82° C)
Output:	
Pulse Output	Current Sinking Open Collector Type rated to 30mA @ 36V (dc) max.
Pulse Output Units	Flow Totalization in any predefined or custom unit.
Pulse Scaling	Customized by user
Analog Output	4-20mA or 0-20mA
Communication:	
Bluetooth®	Programming interface; Supported on Android devices
RS485	Support for Modbus®, RTU and BACnet®/MS TP
Coin Cell Battery:	
Battery Backup for internal clock	
Units:	
Totalization	Gallon, Litre, Imperial Gallon, Quart, Barrel, Cubic Centimetre, Cubic Metre, Ounces, Cubic Feet
Rate	units/second, units/minute, units/hour, units/day
Energy Units	Btu, kBtu, Mbtu, Wh, kWh, MWh, Joules, kJ, Ton
Energy Rate	All energy total units/day, units/hr, units/min or units/s

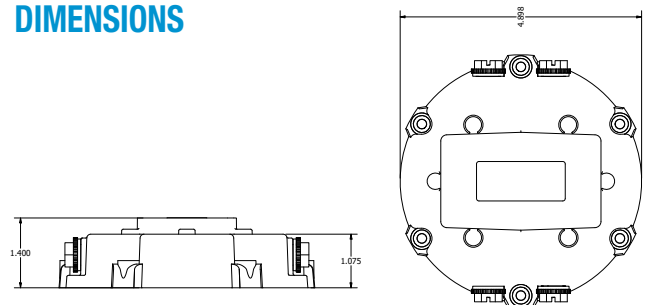
FLOW SENSOR INPUT

Type	Min Input	Max Input	Frequency
Pick-up Coil	5 mVpp	36V (dc)	0-1 kHz
Open Collector Pulse	2.0V (dc)	36V (dc)	0-3 kHz

ACCESSORIES

Part No.	Description
145504-04	KIT, ADAPTER, OM-QSI1-NO DISPLAY
145504-05	KIT, ADAPTER, OM-QSI2-NO DISPLAY
145504-06	KIT, ADAPTER, OM-QSI3-NO DISPLAY
145505-04	KIT, ADAPTER, G2-QSI1-NO DISPLAY
145505-05	KIT, ADAPTER, G2-QSI2-NO DISPLAY
145505-06	KIT, ADAPTER, G2-QSI3-NO DISPLAY
145506-04	KIT, ADAPTER, GSCPS SERIES-QSI1-NO DISPLAY
145506-05	KIT, ADAPTER, GSCPS SERIES-QSI2-NO DISPLAY
145506-06	KIT, ADAPTER, GSCPS SERIES-QSI3-NO DISPLAY
145507-04	KIT, ADAPTER, TM-QSI1-NO DISPLAY
145507-05	KIT, ADAPTER, TM-QSI2-NO DISPLAY
145507-06	KIT, ADAPTER, TM-QSI3-NO DISPLAY
145508-04	KIT, ADAPTER, REMOTE-QSI1-NO DISPLAY
145508-05	KIT, ADAPTER, REMOTE-QSI2- NO DISPLAY
145508-06	KIT, ADAPTER, REMOTE-QSI3- NO DISPLAY

DIMENSIONS



APPROVALS



Service & Warranty: For technical assistance, warranty replacement or repair contact your **FLOMEC®** or **GPI®** distributor:

In North or South America: **888-996-3837** / Outside North or South America: **+61 2 9540 4433** / **FLOMECmeters.com**

Wichita · Sydney

GREAT PLAINS INDUSTRIES



© 2022 Great Plains Industries, Inc. All Rights Reserved.