



Pending

QUARTZDYNE, INC.

A

1020 ATHERTON DRIVE
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Q-Link

DIGITAL TRANSDUCER INTERFACE

FEATURES

- Interfaces with up to 4 Quartzdyne® Digital Transducers
- Internal microprocessor and flash memory
- Firmware updateable via www.quartzdyne.com
- Code Compatible with SERIES I
- Computes pressure and temperature
- Compact 12.6cm x 8.1cm x 4.8cm
- Computer interface via RS-232
- User-selectable units, span, and zero adjustment
- Unattended Data Logging

APPLICATIONS

- Laboratory testing
- Field calibration transfer standard

DESCRIPTION

The QUARTZDYNE® *Q-Link* INTERFACE incorporates a microprocessor to compute pressure and temperature for up to four digital transducers. Multiple *Q-Links* can be connected to the same RS-232 bus. Flash memory is integrated for data logging, and device settings. A real time clock is included for time stamping data. The *Q-Link* provides four 6-pin MiniDin transducer ports, one RS-232 (D-Sub 9) communications port, and one P-7 power connector port.

The serial computer interface allows the user to select the units of pressure and temperature, and permits zero and span adjustments. The user can select which data is transmitted to the computer. *Q-Link* automatically downloads any connected digital transducer's coefficient file. User-selected options (such as units of pressure and temperature) can be written to memory, so that the *Q-Link* operates in the desired mode on "power-up."

A user-friendly *Q-Link* update software package can be downloaded from www.quartzdyne.com. The software will automatically load the new firmware via RS-232 into the *Q-Link's* flash memory.

Specifications

ABSOLUTE MAXIMUM ELECTRICAL

Supply Voltage..... 0 to 6.8V*
Supply Current..... 300mA

ELECTRICAL INPUTS

Power Supply Connector..... 3.5 x 1.3 mm center positive P-7
Supply Voltage..... 3.6 to 6.3 VDC*
Supply Current..... 135 mA typical (Q-Link only)
+10 mA per Digital Transducer
Recommended Power Supply..... 3.0 VDC @ 400mA Unregulated*

COMMUNICATION

RS232 8 data bits, 1 stop bit, no parity
Up to 115.2Kbaud

ENVIRONMENTAL

Operating Temperature 0 to 60°C
Storage Temperature -40 to +80°C
Hermeticity Dust Proof

I²C COMMUNICATION

Frequency Range 1 kHz to 100 kHz
Input Voltage..... 3V Logic Levels
Input Impedance..... 10 kΩ

CABLING

RS232 15 m maximum; shielded cable recommended
Multiple *Q-Links* possible with 'Y' cables or dual serial ports
Digital Transducer..... 2 m typical

DATA LOGGING

Flash RAM 896KB Storage Space
Data Points 229,376 Data Items
76,458 data sets (time,pressure,temperature)
Data Retention..... >10 Years

*Warning – Unregulated supplies may have dangerously high DC voltages. Do not use a supply that exceeds maximum voltage at minimum supply current.



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