

Serial Interface Connections—Q-TRAK™ IAQ Monitor

Application Note ITI-038

The Q-TRAK™ and Q-TRAK™ Plus data port is a serial communications port used to interface with a printer, computer, or other serial device. The connector required for the RS-232 port is an eight-pin RJ-45 modular connector. The Q-TRAK™ and Q-TRAK™ Plus transmit data as ASCII character codes.

Specifications for serial communications are:

| | |
|-------------|------|
| Baud Rate: | 1200 |
| Data Bits: | 8 |
| Stop Bits: | 1 |
| Handshaking | None |

With the instrument lying flat on a table face up with the data port facing you, pin 1 is on the right side and pin 8 is on the left.

Data Port Pin Assignments

| Pin Number | Function | Direction |
|------------|---------------------------|--------------------------------------|
| 1 | Not used | |
| 2 | Not used | |
| 3 | Receive data (Rx) | To Q-TRAK™ or Q-TRAK™ Plus monitor |
| 4 | Data Set Ready (DSR) | From Q-TRAK™ or Q-TRAK™ Plus monitor |
| 5 | Transmit data (Tx) | From Q-TRAK™ or Q-TRAK™ Plus monitor |
| 6 | Not used | |
| 7 | Signal Ground (G) | |
| 8 | Data Terminal Ready (DTR) | To Q-TRAK™ or Q-TRAK™ Plus monitor |



Cable Wiring for Communications with IBM-PC compatible Computer Using 25-Pin, or 9-Pin RS-232 Port

| Instrument Data Port Pin | Computer 25-Pin Connector (Use TSI 800560 Cable) | Computer 9-Pin Connector (Use TSI 800563 Cable) |
|--------------------------|---|--|
| 1 | 8 | 1 |
| 2 | 5 | 8 |
| 3 | 2 | 3 |
| 4 | 6 | 6 |
| 5 | 3 | 2 |
| 6 | 22 | 9 |
| 7 | 7 | 5 |
| 8 | 20 | 4 |

TSI Incorporated – 500 Cardigan Road, Shoreview, MN 55126 U.S.A

| | | | |
|------------------|-----------------------|--|---|
| USA | Tel: +1 800 874 2811 | E-mail: info@tsi.com | Website: www.tsi.com |
| UK | Tel: +44 149 4 459200 | E-mail: tsiuk@tsi.com | Website: www.tsiinc.co.uk |
| France | Tel: +33 491 11 87 64 | E-mail: tsifrance@tsi.com | Website: www.tsiinc.fr |
| Germany | Tel: +49 241 523030 | E-mail: tsigmbh@tsi.com | Website: www.tsiinc.de |
| India | Tel: +91 80 41132470 | E-mail: tsi-india@tsi.com | |
| China | Tel: +86 10 8260 1595 | E-mail: tsibeijing@tsi.com | |
| Singapore | Tel: +65 6595 6388 | E-mail: tsi-singapore@tsi.com | |



TRUST. SCIENCE. INNOVATION.

Contact your local TSI Distributor or visit our website www.tsi.com for more detailed specifications.