

# APPENDIX B

## DIGITAL SENSOR CONNECTION SPECIFICATION

### GENERAL

The following information defines the physical connector, the electrical connections for signals for sensors manufactured by Envirodata Australia Pty. Ltd.

The output signal is a square wave switching between ground and the positive D.C. voltage with frequencies in the general range of zero to 100 pulses per second (100 Hz). This is a robust signal that can be transmitted distances of up to several hundred metres without loss or accuracy due to noise or cable length. For analogue sensors, such as temperature, this means an electronic converter is required next to the sensor itself.

### PHYSICAL CONNECTOR

The connector supplied with each sensor is a Conxall type three pin receptacle with female contact pins :-

Receptacle part 6280-3SG-316 CABLE SOCKET W/#20

Contact Part CRIMP CONTACT SOCKET #20 586-SG

### ELECTRICAL CONNECTIONS

PIN A +5.5 to 7 volts D.C. (Note 1) [Red Wire]

PIN B SIGNAL [Blue Wire]

PIN C GROUND (Zero volts D.C) [Green Wire]

### NOTE

Most Envirodata manufactured sensors require less than 2.5 mA for operation, although special accuracy sensors sometimes require up to 5mA.

