TURO TECHNOLOGY PTY LTD

TECHNICAL NOTE   No. 11

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T-611 REAL TIME DATA OUTPUT

From Version 1.17 of the T-611 Reader Unit firmware, it is possible to send out data via the COMMS connector in real time.

The communications cable supplied with the T-611 should be connected to the COMMS connector on the Reader Unit and the other end to a PC communications port or other device.

When the DATA PORT ON/OFF is set to ON a heading is transmitted. Then a line of data is output every time the Reader Unit display is updated. This happens in three situations:

1. When the unit is on and the display is showing data, it is updated approximately every 2 seconds.

2. When the system is autologging and turned off, it displays data momentarily when the sensors are read. For example, if it is set to record every 5 minutes, it will save data in the Reader Unit memory every 5 minutes, display it and send that data out every 5 minutes in RS232 format to the COMMS connector.

3. Whenever the user pushes the STORE button on the front panel of the Reader Unit, data is stored in its memory, momentarily displayed and also sent out to the COMMS connector.

The three situations are not exclusive. For example while in logging mode the STORE button may be pressed to record data between regular logging readings.

The Data Format is as follows:

```
REAL TIME DATA

SERIAL NUMBER:      6

                          TEMP  COND  COND  SAL  DO    DO   PH    ORP   TURB

  DATE       TIME          C   ms/cm us/cm  ppt %sat  mg/l  pH    mV    ntu
--------------------------------------------------------------------------

13/07/01  14:27:19.78     12.9  80.0  8000 60.0  62.0  4.5  4.4   313   0.7

13/07/01  14:27:21.46     12.9  80.0  8000 60.0  62.0  4.5  4.4   313   0.7

13/07/01  14:27:22.24     12.9  80.0  8000 60.0  62.0  4.5  4.4   313   0.7

13/07/01  14:27:23.17     12.9  80.0  8000 60.0  62.0  4.5  4.4   313   0.7
```

At the end of each line there is a carriage return line feed (<cr> <lf>). There are no blank lines. The communications format is the same as for other situations such as getting the data logged and stored out of the Reader Unit: RS232, 4800 baud, 8 bit, 1 stop, no parity.

For further information refer to the Operator's Manual.