

Memorandum

To: Alan Auld, PURCHASING OFFICER – STORES

From: Dan Toon, EXECUTIVE MANAGER – COMMERCIAL SERVICES

Cc:

Date: 01 October 2004

Re: Purchase Specification – Battery Powered Electromagnetic Water Meters.

File Reference: pm:kb 50/001/0028

BATTERY POWERED ELECTROMAGNETIC WATER METERS.

PURCHASE SPECIFICATION.

- 1.0 Water meter to be battery powered electromagnetic type complete with LCD display unit.
- 2.0 Size will be specified at time of purchase.
- 3.0 Generally above ground conditions for water supply purposes.
- 4.0 Transmitter to be non-key pad operation.
- 5.0 Pressure Classification – Class 16 (min. working 1200 kPa).
- 6.0 End connections to be flanged. Flanges suitable for connection to AS 2129 Table 'C' or 'E'.
- 7.0 Water meter to be bi-directional type and be able to measure and display forward flow, reverse flow, nett flow, flow velocity, date and time.
- 8.0 Totaliser units to be kilolitres, flow rate units to be litres/second.
- 9.0 Battery life to be at least 18 months.
- 10.0 Flow sensor and Display Unit/Transmitter to be IP68 protection.
- 11.0 Display Unit/Transmitter to be remote from the Sensor Unit. Display Unit/Transmitter to be connected to the sensor unit with a shielded cable 1m length. Shielded cable to be fitted and potted to IP68 protection.
- 12.0 Calibration to be at least a 3 point. Factory calibration certificate to be provided.

- 13.0 Accuracy to be better than +/- 0.5%.
- 14.0 Water Meter to be provided with two (2) earthing rings.
- 15.0 Transmitter to be set with full scale settings according to nominal size as follows:

Nominal Size		Full Scale Flow Setting	
20	mm	3	L/sec
25	mm	3	L/sec
50	mm	10	L/sec
80	mm	10	L/sec
100	mm	15	L/sec
150	mm	40	L/sec
200	mm	60	L/sec
250	mm	100	L/sec
300	mm	150	L/sec
350	mm	200	L/sec
400	mm	250	L/sec
450	mm	300	L/sec

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