

# Memorandum

---

**To: Alan Auld, PURCHASING OFFICER – STORES**

---

**From: Dan Toon, EXECUTIVE MANAGER – COMMERCIAL SERVICES**

---

**cc:**

---

**Date:** 01 October 2004

---

**Re: Purchase Specification – Electromagnetic Water Meters.**

---

**File Reference:** pm:kb 50/001/0028

---

## **ELECTROMAGNETIC WATER METERS.**

### **PURCHASE SPECIFICATION.**

- 1.0 Water meter to be 240 VAC 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 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 Flow sensor and Display Unit/Transmitter to be IP65 protection.
- 10.0 Display Unit/Transmitter to be remote from the Sensor Unit. Display Unit/Transmitter to be connected to the sensor unit with a shielded cable. Shielded cable to be fitted and potted to IP68 protection to the Sensor Unit.
- 11.0 Cable length will be specified at time of purchase.

12.0 Calibration to be at least a 3 point. Factory calibration certificate to be provided.

13.0 Accuracy to be better than +/- 0.2%.

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

16.0 Signal Outputs to be analog 4-20 mA for flow rate, and digital outputs for alarms.

17.0 Transmitter to be powered by 240 VAC, and be fitted with a standard three pin plug and 1m power chord.

Prepared by

Phil McKone RPEQ

**STRATEGIC ASSETS AND COMPLIANCE ENGINEER.**

Endorsed by

Dan Toon RPEQ

**EXECUTIVE MANAGER COMMERCIAL SERVICES.**