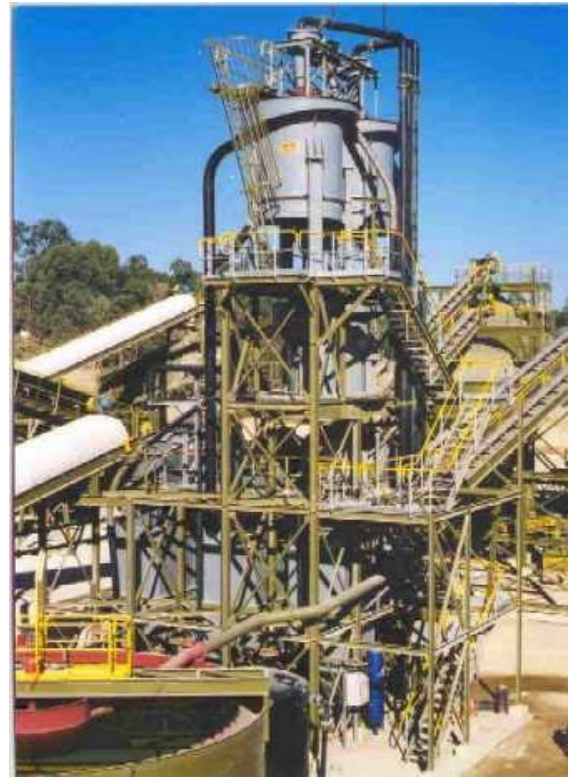


Concrete Industry

Water Measurement Products



- **Batch Controllers**
- **Flowmeters**
- **Computer/PLC interfaces**

- **Agitator Truck flowmeters**
- **Slump Stand meters**
- **Manual/Automatic Batching**

ManuFlo - experience counts

Our operations began in 1965. Today, ManuFlo products are used in over 90% of all pre-mix concrete production plants throughout Australia, and are exported to regions including the Asia/Pacific, South America, and the Middle-East. Australia's biggest premix concrete manufacturers use ManuFlo products for liquid measurement /batching in their production facilities. The ManuFlo philosophy: simple-to-use and reliable products, backed with rapid support.



ManuFlo [®]™

Flow Measurement & Control Products
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Concrete Industry Water Measurement Products

COMPONENTS - Flowmeters



MRPU5

Ideal for **Slump Stands** and manual water batching. • Can be fitted to various pipe sizes using a range of pipe adapter fittings. • Resettable LCD 5 digit Litres display. • Internal Lithium battery.



RPFS

The Rota Pulse Flow Sensor (RPFS) series is an economical and easy to service **general purpose flow sensor**. It fits into a range of pipe adapter fittings for batching and flow measurement.



pipe adapters

To fit MRPU5 and RPFS flowmeters to various pipe sizes, a range of pipe adapters is available: • Galvanised Iron or PVC T-pieces, plastic saddleclamps, and Brass and Stainless Steel adapter nipples.



MRP20-T2

Specifically designed for **concrete agitator trucks**, with 5-digit resettable LCD Litres display (closing the lid resets the Litres total) and internal long life (5-10 year) Lithium battery.

The MRP20-T2 has 3/4" BSP(male) threaded connection ends.



FMS

Electromagnetic flowmeter with high level of performance, ideal to measure **slurry water in Premix Concrete Plants**. • Robust, virtually maintenance free with no moving parts, obstructionless bore, wide flow range. • Programmable. • Pulse and 4-20mA outputs. • Optional display and flange connection kit. Sizes 25-200mm.

Totaliser Indicator



ME5-T

LCD 5-digit resettable **Totaliser Indicator**. IP65 enclosure, for flowmeter remote display options.

Power options: internal Lithium battery (5-10 year life), external 5-30 VDC, or external 240vac.

Batch Controllers



ME995-7

For preset liquid batch control applications. The **ME995-7 Batch Controller** has Litres selectable to 9999. • Incorporates a preact (overflow deduct) feature, K-factor adjustment (can be used with most pulse output flowmeters), 4 LED status indicators and diagnostic safeties. • Rear 10-pin Weidmuller plug means instant changeover without rewiring. • Can be easily interfaced with PLCs through optional interface plug.



ME3000

The **ME3000** is the next generation **ManuFlo Batch Controller**, with internal event log. • Optional computer control interface and printer interface for batch tickets. • Programmable, can be used with any flowmeter. Has 2 line x 16 character LCD display to show settings and any alarm messages. Run/flow/output indicator LEDs and touchpad data entry. • Pulse and 4-20mA output. • Available early 2005.

Computer/PLC Interface



UIC/A2 and UIC/D

The **UIC/A2** is a **Universal Interface Card** with pulse scaling, for connecting a flowmeter to a PLC input. • 24-240vac triac switching isolated pulse output, and 5-12VDC sink pulse output. • The **UIC/D** Universal Interface Card with pulse scaling provides 5-30VDC open collector 4N33 opto-isolated pulse output and 5-12 VDC sink output.

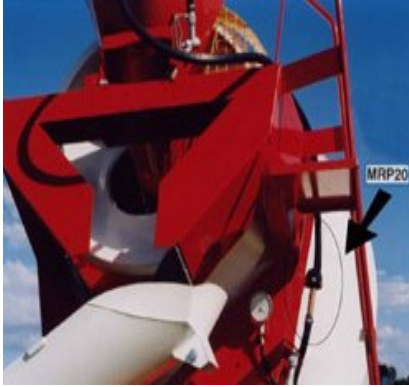
Data Sheets on our entire range of products can be downloaded from our website at <http://www.manuelectronics.com.au/>

Concrete Industry Water Measurement Products

APPLICATIONS

Many of our products are designed and manufactured to meet a diverse range of industry application requirements, guaranteeing simplicity of design and operation, quality, performance and competitive pricing.

Concrete Agitator Truck



- The MRP20-T2 LCD resetable Litres counter flowmeter has been custom designed and built primarily for use on Concrete Transit Mixers (agitators).
- Hinged cover protects LCD from sunlight.
- Durable alloy paddlewheel rotor.
- Access for re-calibration.
- 3/4" BSP(male) connection ends.
- Unaffected by water hammer, compressed air, mild frozen or light recycle water.
- Optional pulse output for data logging.



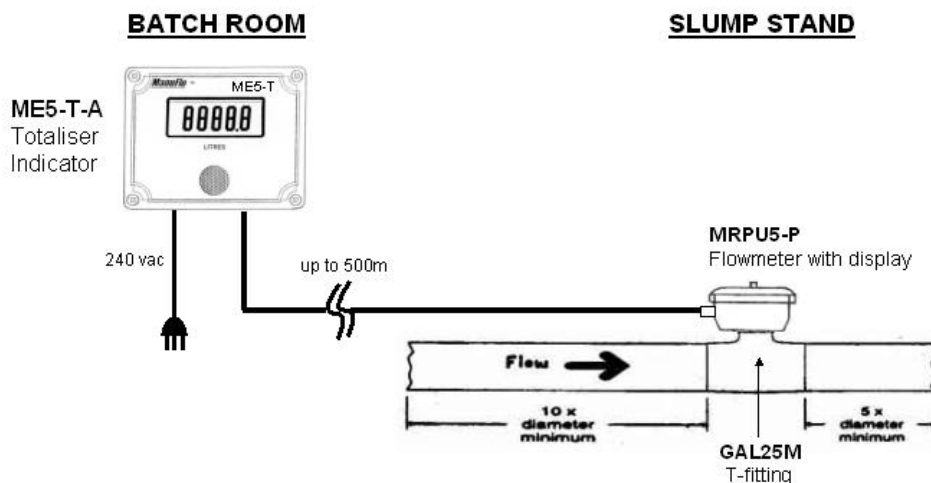
Slump Stand



MRPU 5 flowmeter:

- has a resetable LCD 5-digit Litres display.
- can be fitted to various pipe sizes through a range of pipe adapter fittings.
- internal Lithium battery (5-10 year life).
- optional pulse output for data logging.

Dual Display Slump Stand System Order Code: DSSS-1



The Dual Display Slump Stand System (DSSS-1) provides readings at the Slump Stand and at the Batch Room, so that the Batchers can monitor water usage at the Slump Stand (the Batch Room can be up to 500 metres away). The system comprises:

- MRPU5-P flowmeter with the pulse output option, with a 25mm Galvanised Iron T-piece pipe adapter.
- ME5-T-A restebale Totaliser Indicator (AC powered).

Concrete Industry Water Measurement Products

Plant batching

Batching in plants can be manual, semi-automatically or fully-automatic.

Manual Batching

The batch operator manually starts and stops the flow, and uses a resetable Litres counter to get the desired quantity.

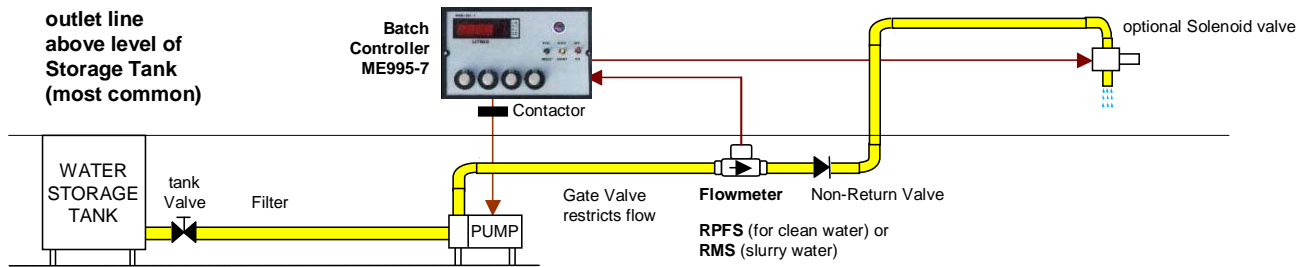


MRPU 5 flowmeter:

- has a resetable LCD 5-digit Litres display.
- can be fitted to various pipe sizes through a range of pipe adapter fittings.
- internal Lithium battery (5-10 year life).
- optional pulse output for data logging.

Semi-Automatic Batching

The batch operator sets the quantity to be batched, and the Batch Controller controls the flow to deliver the required batch quantity. A typical installation is:



Fully-Automatic Batching

The PLC/Computer sets the quantity to be batched and the flow is automatically controlled to deliver the required batch quantity. Common configurations are:

- flowmeter - UIC - PLC/Computer.
- flowmeter - Batch Controller - -MC2/ME5IC - PLC/Computer. Batch Controller provides batch safeties.

