

Newsletter

ManuFlo ^{®TM}
FLOW MEASUREMENT PRODUCTS

Please visit our website at www.manuelectronics.com.au

A division of Manu Electronics Pty Ltd

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COMMENT:

Welcome to the first newsletter in seven years. We have been very active in this time introducing many new products, welcoming new staff and achieving sales milestones. Alex Manu –MD

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CMM25 compact Magnetic flowmeters



SLUMPSTANDS for recycle water or various ADMIXTURE chemicals

The **CMM** Magflow flowmeters were introduced in mid 2019 to offer a premium economical solution for measurement of difficult fluids.

The CMM25 25mm size Magflow connected to a **ME4T** resettable counter with **WPTR** wireless pulse transmitter system has been rolled out for use with a Concrete major's metro Sydney batch plant Slumpstands for measuring recycle water. They are used in lieu of **MRP/MRT** paddlewheel flowmeters where the water quality has a much higher concentration of solids.

The CMM10, 15 and 25mm sizes are also a premium solution for measurement of chemical admixtures which are high in density, contain solids or of a higher acidic nature. These are an ideal alternative solution in lieu of the much used **MES20** disc series PD flowmeters. *Enquire for further details.*

WPTR Wireless live Pulse transmitter/receiver system

The **WPTR** system is a wireless live pulse transmitter/receiver system ideal for recording of liquid batched at Slumpstands and then registered at the Batch-room counter/computer where hardwire cable runs are impractical. It is a compact design, and includes antennas.

The maximum pulse rate is 5 Hz and the maximum transmission distance is 150 metres with standard unit or further with an optional larger antenna.

The transmitter & receiver are 12-24VDC powered with transmitter wired to the output of one flowmeter (**MRTU4-P**) or indicator (**ME4T-P**). The receiver has two (2) input channels accepting pulses from 2 flowmeters/transmitters.

The receiver then outputs the pulses to a PLC or counter input for recording the



Please contact us if you need:

- * new product orders
- * new features added to existing products
- * flowmeter calibrations
- * repairs
- * technical questions answered

MRT –LCD resettable total/rate–battery powered–Flowmeters

The **MRT20 / MRTU4/6** are integral 4 digit LCD resettable total or dual line 6 digit resettable counter + flowrate display flowmeters powered by an internal 10+yr lithium battery. The flowmeters incorporate a unique ‘quick release’ slip insertion stem section designed to be inserted to the extensive range ManuFlo proprietary pipe adaptors which allows the display head to be fitted to most pipe materials (e.g. PVC, Poly, Galvanized, S/S) from 20 to 500 mm pipe diameters.

The 4 digit unit is ideal for manual transfer monitoring of batches where an easy reset of total is required. They are extensively used on concrete delivery trucks, concrete batch plant slumpstands and general applications for adding / transfers of water,

Additionally the 6 digit unit has a bonus flowrate display with an optional running total which are ideal for irrigation applications.

If logging or remote read or transfer of totals is required, the units can be optionally fitted with a scalable pulse output via an IP67 rated M12 mating cable plug lead.



Manufactured in Australia by ManuFlo since 2017, Robust and reliable with simple flip reset lid action also protects the LCD from prolonged UV-rays, they number over 6000 units in use. MRT are also NFC programmable via the Andriod software app. <http://www.manuelectronics.com.au/technical.html>



WATER = LIQUID GOLD

ManuFlo Flowmeters connected with Outpost-Central Dataloggers used for Government water studies in commercial and residential applications

COMMERCIAL

The ManuFlo **RPFS-LOD** insertion paddlewheel pulse flowmeter wired in conjunction with Outpost-Central **WASP** dataloggers are providing accurate critical water usage data for the Food Agility Co-operative Research Centre. The flowmeters were selected for high resolution signals and because they are easily fitted to existing water irrigation pipelines via the large range of saddle-clamp adapters ranging in sizes up to 315mm diameter.

Read: www.foodagility.com/projects/on-farm-water-demand



RESIDENTIAL

Sydney Water have been conducting a residential household water usage study over the last 2 years using a quantity of 400 government NMI approved ManuFlo **CT5-S20** (modified Itron TD8-20mm) positive displacement water flowmeters connected to Outpost-Central **WASP** dataloggers. The systems are gathering vital information for water usage data, for peak water demand. This will allow synchronization of De-sal water plant production in times of drought.

The CT5-S20 flowmeters are equipped with high resolution pulses detecting volumes as low as 13 millilitres per signal enabling measurement of extremely low flowrates. The latest study will be conducted in Saudi Arabi in mid-2021.

More info: http://www.manuelectronics.com.au/water_studies.html



Customer regional NSW site visits

Due to Covid-19 the ability to reliably visit our customers has been affected because of uncertainty with travel restrictions. Therefore visits in 2020 were limited to within NSW.

Well known is the fact that many regional Concrete Batch Plants are still using ManuFlo **ME995** Batch Controllers and **MES20** flowmeters to dispense their chemical admixtures since introduction in 1995. It is very satisfying to see the equipment still operating reliably with some dating back to 1982 still using the **ME182/188** Controllers with MEK20's, an incredible 39 years later and still doing their job safely measuring/controlling/dispensing chemicals. A true testimony to the equipment's longevity.

Some locations visited recently included Newcastle, Dungog, Tamworth, Moree, Mudgee, Griffith, Wagga-Wagga, Young, Dubbo, Wollongong, Cootamundra, Tumut, Bowral and many more.

Another milestone was the installation of the forementioned equipment at a batch plant mine site in Ghana Africa in January 2020. This marked the 10,000th ME995 produced over its now 26 year lifespan.



MES20-DSP Digital Smart Pulse Flowmeters and saying goodbye to a founder

The **MES20** admixture measurement flowmeter first introduced in 1995 was recently upgraded with the Latest technology available and now numbers over 45000 units in operation today.



The end of 2019 saw ManuFlo's pioneer and founder Anthony "Tony" Manu depart this mortal world and travel to the next. His memory and contribution lives on having introduced automatic bottle dispensing methods in the 1960's and digital flowmeter / batch controllers in the 1970's and having a hand in designs during the 2000's.

Read: http://www.manuelectronics.com.au/pdfs/The_manuflo_story-v3.pdf



KMS & RMS Electromagnetic Magnetic flowmeters

The **KMS** Magnetic Flowmeter range introduced in 2015 are custom programmed, wired and flow tested on our NMI flowrig to meet a wide range of specific application requirements. This added service allows a simple plug and play solution, thus saving big dollars on commissioning costs. The **RMS** series are a WA-FER high pressure sensor option for apps up to 740psi.

Our customised Magflows are available in sizes from 6mm up to 300mm in wafer, flanged or SIP connections with various liners and electrodes. Voltage ranges include AC, DC or internal lithium battery powered options. Units can be integral or remote display with various output options. They can be used as standalone manual batching/transfer units or for automatic batching and monitoring.

Further, they are available with a wide range of approvals to meet various standards including water authority and custody transfer requirements.

The model range allows solutions for measuring practically any type of conductive fluid application.

- Manual Transfer Batches with Reset Total
- Any conductive liquid can be measured
- Recycle, Grout & Slurry Water Batching
- Measuring wide range of Chemicals
- Irrigation NMI-M10 approved
- Trade Waste applications



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Please visit our website at
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Go with the Flo



Major Infrastructure Projects

ManuFlo's equipment plays its part in major infrastructure projects e.g. M4 tunnel & Snowy Hydro-2. The KMS & RMS Magflows for measurement of Grout piling, slurry water extraction, shotcrete spray rigs, Tradewaste ground water. ME995 batch controllers for chemical deliveries and so many other applications.



New staff

In the last 5 years the following Staff have joined the team;
 Phil- our resident Sales Applications Engineer with a vast 30+yrs experience in flow measurement technology.
 Bill- brings 30+yrs of service/technical know how & heads the ME2008 product.
 Mark –the dispatching dynamo.
 Harry- resident jack of all trades with can do attitude.
 Matin– leads MRT/MRP guru technical knowledge.