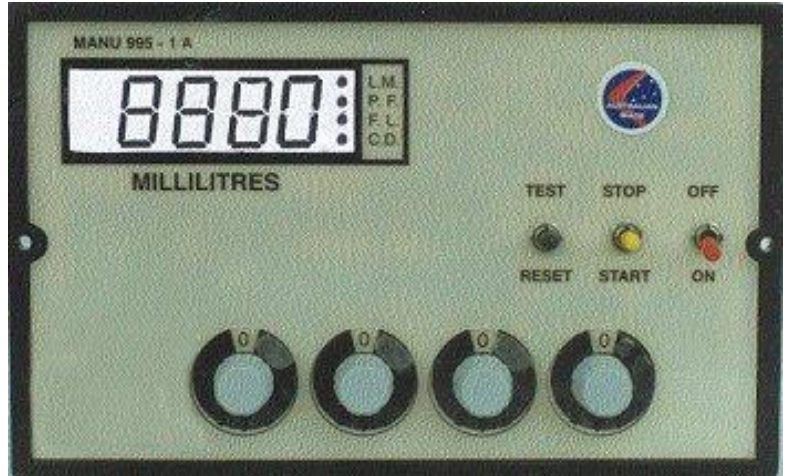


# ME995-1A MILLILITRES PRESET BATCH CONTROLLER

## FEATURES

- \* 4 Digit LED display
- \* 4 x LED status indicators
- \* Preact function
- \* Preset maximum limit
- \* Missing pulse detection
- \* Counts in millilitres upto 9000
- \* Optional PLC & computer interface
- \* Interchangeable with earlier ME188 models



The ME995-1A MILLILITRES preset batch controller, with added features complies with Quality Assurance requirements for the concrete additives industry. It incorporates a standard preact (overflow deduct) feature, and a contact drive LED indicator. With the ME995 series batch controller using the same 10 pin Weidmuller receptacle plug as the previous ME188-1, changeover and replacement is instant with no rewiring necessary.

The ME995A-1 controller can easily be interfaced with PLC's, thus incorporating it's safety features and connected as a set point controller or as a easy to use stand-alone backup batch controller facility.

With 3 rotary selector switches and 1 fixed knob, batch quantities are easily selected. The batch operator can also refer to important visually selected batch quantity numbered selector dials. Command operations are by user friendly toggle switches, and four LED's indicate operational status conditions.

Batch counting and selection is in increments of 10 millilitres, since the first display digit and fixed selector knob remain zeroed. The seven segment LED's count upward, to a maximum of 9000 millilitres. The ME995-1A controller operates from standard 220 - 260 VAC (or optional 110 VAC or 12 - 24 VDC) voltage supplies. Contact output drive is via one (or optional two) relays. Standard contact output is 240vac –optionally other voltages can be configured. The Controllers are in panel mount form. A range of filed enclosures are available in a metal powder coated housing box or IP65 ABS wall mount enclosures.

(The ME995-1A controller is compatible only with MES20 and MEA15 1 millilitre per 1 pulse output flowmeters ).

## SAFETY FEATURES

- \* CONTACT DRIVE (CD) LED indicates voltage contact output drive when pump or solenoid are activated.
- \* FLOW (FL) LED monitors and indicates incoming pulses from field flowmeter, or if test is used.
- \* PULSE FAIL (PF) LED activates if no pulses arrive within 1.5 seconds (variable) initial start time period, or if pulses are interrupted or intermittent during the batch cycle and fall below set (variable) pulse scanning time (typical 30hz.) and subsequent automatic shutoff of voltage contact drive.
- \* LIMIT LED (LM) illuminates if the batch cycle reaches the locked internal limit maximum, or if circuit detect an internal chip problem. Again, automatic shutoff of voltage contract drive occurs.
- \* Internal audible ALARM sounds momentarily during completion of batch cycle, and continuously if PULSE FAIL or LIMIT LED's are activated, or if overflow runs 1000 millilitres (variable) past the selected batch quantity.

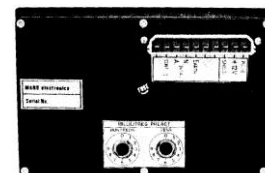
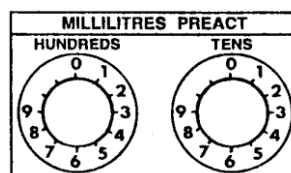
**Warning: if CONTACT or FLOW LED indicators on but controller not counting discontinue use and call for service.**

**OPERATING INSTRUCTIONS**

- \* To operate, push each of the toggle switches ON-OFF, START-STOP and TEST-RESET to the desired function.
- \* Switch the power ON to unit. Select required batch quantity using rotary number dial selector switches.
- \* RESET unit. The 5 x LED displays zero, all LED indicators and alarm sounds turn off. The unit is ready for batching.
- \* START unit; activates voltage contact drive. CONTACT DRIVE LED illuminates indicating pump or solenoid are energised, followed by FLOW LED illuminating, indicating pulsing and operation of flowmeter. The digits begin counting upward towards the selected batch quantity.
- \* Upon digits reaching the selected batch quantity the alarm sounds (short beep) indicating completion of batch CONTACT DRIVE & FLOW LED's turn off. LED display digits and selected batch quantity should correspond. If LED digits overshoot target, use PRACT ( in flight, freefall) overflow deduct dials (located at rear of controller unit) to scale back difference.
- \* To interrupt unit before completion of batch, push STOP toggle; digit counting then stops. Push START toggle to resume or complete batch cycle.
- \* TEST toggle is used to test digit counting, switch contacts, alarm conditions or generate output pulses for computer interfacing (Test does not activate pump or solenoid).

**PRACT:**

**Calibrating inflight overflow deduct** is via two rotary knobs marked "tens" and "hundreds" of millilitres located at rear. Simply set to same reading as overflow value indicated on LED displays (which are a true indication of overflow quantity).

**SPECIFICATIONS**

<b>Output to flowmeter</b>	12 VDC , up to 100mA.	<b>Power supply</b>	220-260 vac (optional 110 vac or 12-24 VDC).
<b>Mounting</b>	Panel mount.	<b>Batch selection</b>	Visual rotary select switches.
<b>Relay outputs</b>	Maximum 240 vac, 30 VDC, 1 Amp.	<b>Batch commands</b>	Push toggle switches.
<b>Frequency input</b>	5 KHz Maximum, NPN input.	<b>Instrument housing</b>	ABS hi-impact mould.
<b>Display</b>	4 digits, 7 segment LED (14mm).	<b>External dimensions</b>	206 L, 130 H, 95 D mm.
<b>Connection</b>	10-pin mating plug/socket.	<b>Panel cutout</b>	190 L, 122 H mm.
<b>Fuse</b>	1 Amp (5 x 20mm case).	<b>Weight</b>	1 kg.

**OPTIONS:**

- Your company name branded on face.
- PLC/computer interface options.
- Pulse output and alarm output options.
- Other control output options.
- Housing enclosures.

*Due to continuous product development, specifications are subject to change without notice.*

**ORDER CODES**



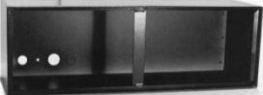
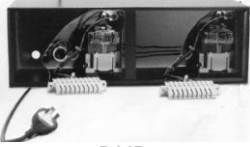

**ME995-1A** Batch Controller, 240 vac supply and output, with 12 VDC power to flowmeter (standard).

**Options:**

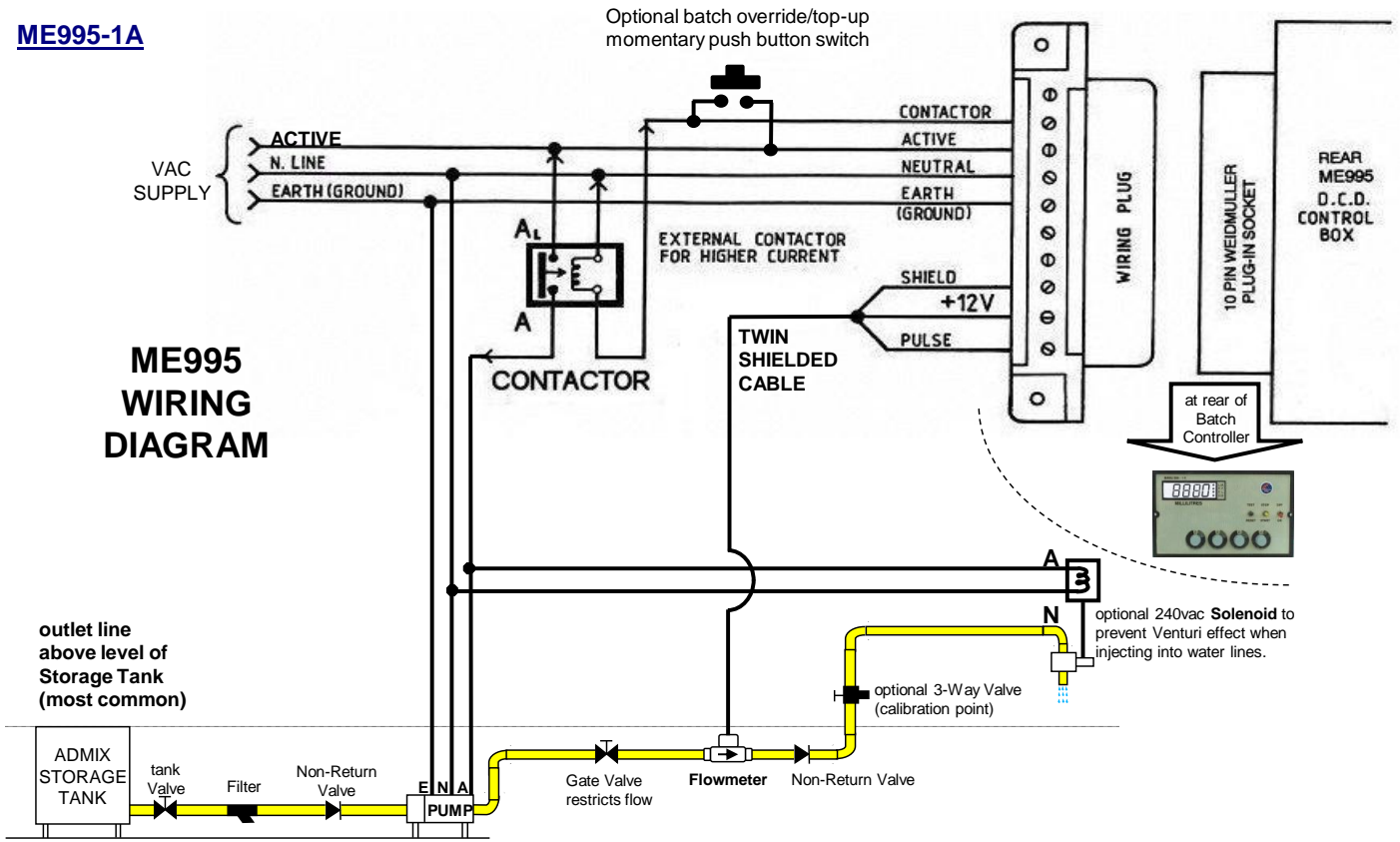
Code	Description	Code	Description
<b>-DC-OC</b>	12-24 VDC power supply input/output drive, with Open Contact output drive (5 A) which is via external voltages	<b>-5P</b>	5-pin computer interface plug (start, stop, reset, pulse,+12V) for use with ME5IC interface card for <b>Jonel, COMMANDbatch etc PLCs.</b>
<b>-24VAC</b>	24 vac powered and output.	<b>-MC</b>	4-pin PLC/Computer Command (Start/Stop/Reset) interface plug.
<b>-110</b>	110 vac powered and output.	<b>-MC2</b>	<ul style="list-style-type: none"> <li>• 2-pin plug for scaled 4N33 open collector pulse output (1 pulse/Litre).</li> <li>• Includes 4-pin external command (Start/Stop/Reset) interface plug.</li> </ul>
<b>-Sn</b>	Combined with MC2 or MC2-C, for 10, 20, 50 or 100 ml / pulse output (where 'n' is the pulse value required i.e. 10, 20, 50 or 100).	<b>-MC2-C</b>	<b>Compubatch interface:</b> 2-pin plug with OPTO 4N33 pulse output. Includes 4-pin external command (Start/Stop/Reset) plug.
<b>-OC</b>	Open Contact pump/valve output, for use with any driving voltage (maximum 5A current).	<b>-SSRBC</b>	External command: Start/Stop/Reset, for connection to HB2500-SSR housing box, or for remote control facility.
<b>-A0</b>	Contact output: alarm/batch-complete voltage relay or logic state	<b>-S12</b>	switch: two product changeover output drive. Allows 2 flowmeter-inputs/pump-drives.

e.g. "ME995-1A" is the standard Batch Controller, 240vac powered, without any of the options, whereas "ME995-1A-MC2" is an ME995-1A Batch Controller with a scaled open collector pulse output, and a Start/Stop/Reset computer interface.

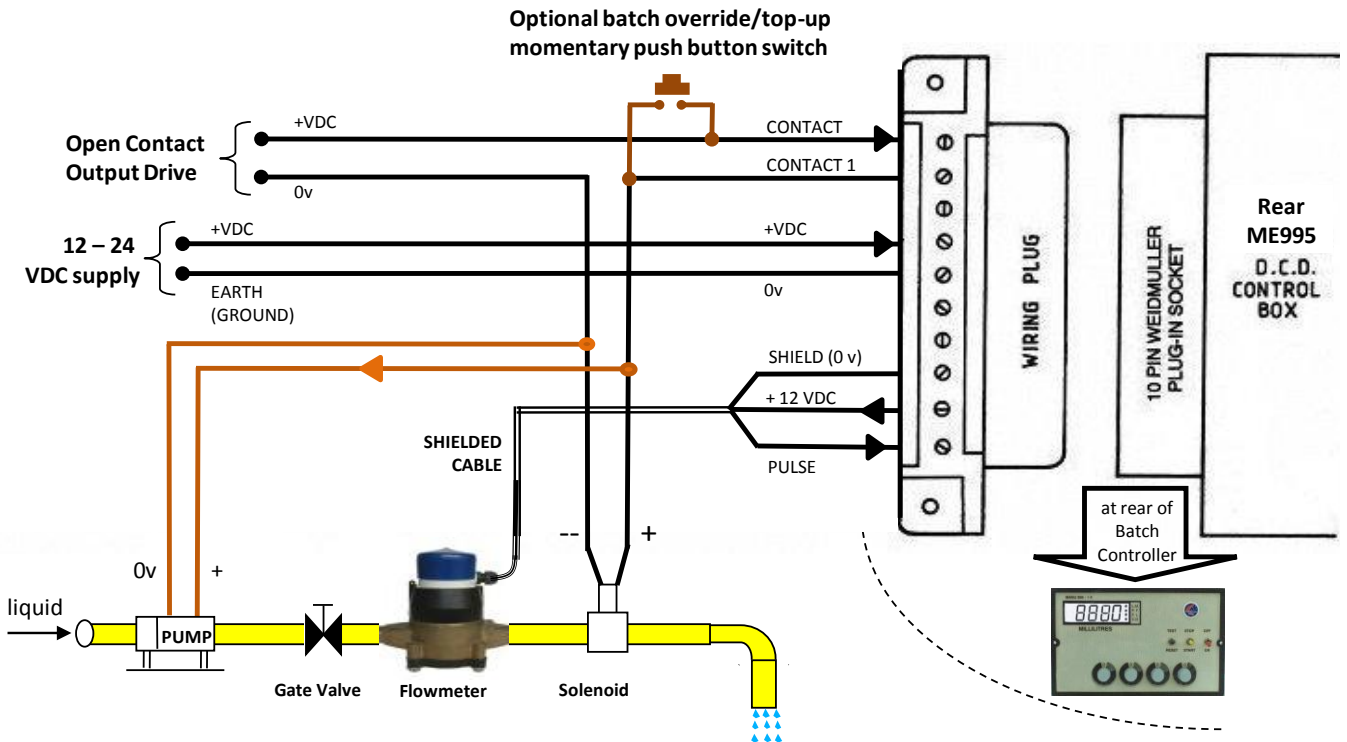
**HOUSING ENCLOSURES**

<b>SHB</b>	Single enclosure. Powder coated metal.		
<b>SHB1</b>	Single enclosure. Powder coated metal. Wired with 240vac contactor (for 1 hp pump), plug-in 240 vac pump outlet and plug.	<i>SHB</i>	<i>SHB1</i>
<b>SHB1-T</b>	as for SHB1 above, but with terminal wiring entry connection instead of 240vac pump outlet		
<b>DHB</b>	Dual enclosure. Powder coated metal.		
<b>DHB2</b>	Dual enclosure. Powder coated metal. Wired with 2x 240vac contactors, 2x pump outlets, and 2x plugs for Batch Controllers.	<i>DHB</i>	<i>DHB2</i>
<b>DHB2-T</b>	as for DHB2, but with terminal wiring entry connections (instead of mains lead and pump outlets).		
<b>HB2510</b>	IP65 waterproof single enclosure.		<i>HB2510-SSR IP65 enclosure shown with ME3000 Batch Controller</i>
<b>-SSR</b>	External commands: Start/Stop/Reset. IP65 rated (option fitted to HB2510).		

**ME995-1A**



**Standard AC Wiring for Pump and optional Solenoid**



**Wiring for DC-powered Batch Controller with DC Open Contact Output Drive to Pump and/or Solenoid**

NOTE: if current draw of solenoid is > 0.5 Amps, or if using a pump, then install a contactor