

ME995-1 MILLILITRES PRESET BATCH CONTROLLER

FEATURES

- * 5 Digit LED display
- * 4 x LED status indicators
- * Preact function
- * Preset maximum limit
- * Missing pulse detection
- * Counts in millilitres upto 90000
- * Optional PLC & computer interface
- * Interchangeable with earlier ME188 models



The ME995-1 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 ME995-1 controller can easily be interfaced with PLCs, thus incorporating its safety features and providing a backup batch facility or operating as a target set point slave controller.

With 4 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 LEDs 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 LEDs count upward, to a maximum of 90000 millilitres.

The ME995-1 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. Controllers are in panel mount form, with a range of field enclosures available as a powder-coated metal housing box or IP65 ABS wall mount enclosure.

The ME995-1 controller is compatible only with MES20, MEA15, MEK20 & KGG20 1 millilitre per 1 pulse output flowmeters.

SAFETY FEATURES

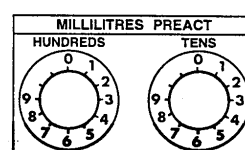
- * CONTACT DRIVE (CD) LED indicates voltage contact output drive when pump or solenoid are activated.
- * FLOW (FL) LED monitors and indicates incoming pulses from field flowmeter, or if test is used.
- * PULSE FAIL (PF) LED activates if no pulses arrive within 1.5 seconds (variable) initial start time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

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

OPERATING INSTRUCTIONS

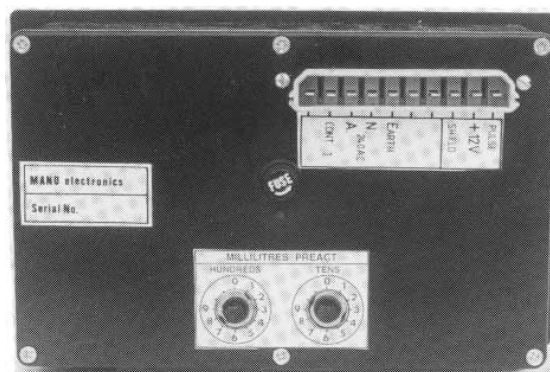
- * To operate, push each of the toggle switches ON-OFF, START-STOP and TEST-RESET to the desired function.
- * Switch the power ON to unit. Select required batch quantity using rotary number dial selector switches.
- * RESET unit. The 5 x LED displays zero, all LED indicators and alarm sounds turn off. The unit is ready for batching.
- * START unit; voltage contact drive activates. 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 and FLOW LEDs turn off. The LED display digits and the selected batch quantity should correspond. If LED digits overshoot target, use PRACT (inflight, freefall) overflow deduct dials (located at rear of controller unit) to scale back the difference.
- * To interrupt unit before completion of batch, push STOP toggle; digit counting then stops. Push START toggle to resume the batch.
- * 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 the same reading as the overflow value indicated on the LED displays (which is a true indication of the overflow quantity).



SPECIFICATIONS

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



OPTIONS

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

Due to continuous product development, specifications may change without notice.

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