

FEATURES

- LED display
- 4 x LED diagnostic indicators
- Preact/freefall function
- Preset maximum limit
- Missing pulse detection
- User friendly simple operation
- Optional PLC/computer interface & pulse/setpoint/alarm outputs
- Many configuration options



(Over 4500 units in operation !!)

The ME995-series panel mount preset batch controllers are available in a range of configuration options. They are suitable for use with pulse output flowmeters for preset liquid batch control applications.

Using rotary selector switches, batch quantities are quickly and easily selected. The batch operator can cross-reference the upcount LED display counter with the originally selected batch quantity shown on the selector dials. The final batched quantity is displayed on the LED batch screen. Command operations are performed by toggle switches, and four LEDs indicate operational status conditions.

The controller incorporates a standard preact (overflow deduct) feature, K-factor adjustment (-7 series models only), 4 diagnostic status condition LED indicators. All wiring and output options are via plug sets, making replacement or maintenance a simple procedure, without having to rewire the installation. The ME995 is easily interfaced with PLCs, thus incorporating the controller's safety features and providing a setpoint system with a backup batch facility.

Standard controllers are in panel mount form, with 240vac input supply, 240vac output drive, and 12vdc to flowmeter. A range of enclosures are available, in metal or ABS, rated to IP65.

CONFIGURATION OPTIONS

Model No.	Description	Input (Pulses/Litre)
ME995-1A	Millilitres, 0 decimal place, 4 digit to 9990	1000
ME995-1	Millilitres, 0 decimal place, 5 digit to 99990	1000
ME995-2 & ME995-3	Doserate calculation controllers – enquire for further details	1000
ME995-4	Litres, 2 decimal places, 4 digit to 90.00	1000
ME995-6	Litres, 1 decimal place, 3 digit to 90.0	1000
ME995-7	Litres, 0 decimal place, 4 digit to 9000	1 to 999
ME995-7D	Litres, 1 decimal place, 4 digit to 900.0	1 to 999
ME995-7G	Litres, 2 decimal places, 4 digit to 99.99	1000
ME995-7H	Litres, 0 decimal place, 5 digit to 90000	1 to 999

OTHER OPTIONS

MC2	PLC interface, volt free commands 4pin & open collector pulse 2pin
5P-ME5IC	PLC interface via plug and special isolation command card (for industrial computer systems)
S12	Two product control selection switch, sequential relay output drives.
AO	Logic or relay output on batch complete or alarm condition
110V	110vac Supply & control voltage

HOUSING ENCLOSURES

SHB	Single Metal powder coated enclosure
DHB	Dual Metal powder coated enclosure
HB2500	IP65 waterproof enclosure
SSR	External commands start/stop/reset IP65 rated (fitted to HB2500)

SAFETY FEATURES

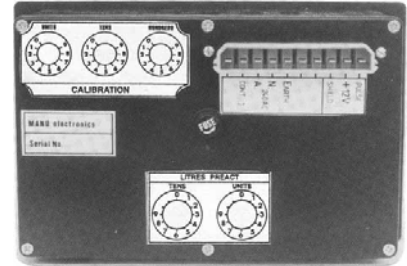
- * **LIMIT (LM) LED** activates if batch cycle reaches locked internal limit, or if circuit diagnostics detect internal chip problem. Subsequently, there is automatic shutoff of voltage contact drive.
- * **PULSE FAIL (PF) LED** activates if no pulses arrive within 1.5 seconds (variable) initial start time period, or if pulses are interrupted during batch cycle and fall below (variable) pulse scanning time (typical 30Hz). Subsequently, there is automatic shutoff of voltage contact drive.
- * **FLOW (FL) LED** monitors and indicates incoming pulses from field flowmeter, or if TEST is used.
- * **CONTACT DRIVE (CD) LED** indicates voltage contact output drive when pump or solenoid is activated.
- * **ALARM** sounds momentarily upon batch cycle completion, and continuously if PULSE FAIL or LIMIT LEDs activate or if overflow setting is reached.

OPERATING INSTRUCTIONS

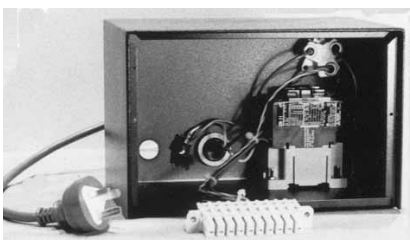
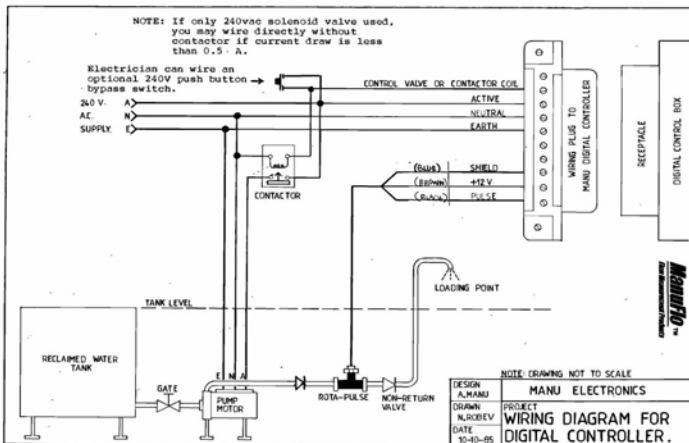
- * Switch ON the power to unit. Select required batch quantity using rotary number dial selector switches.
- * RESET the unit. The LED displays zeroes, and all LED indicators and any alarms turns off. The unit is now ready for batching.
- * To operate, push each of the toggle switches ON-OFF, START-STOP and TEST-RESET to the desired function.
- * START unit - this activates the voltage contact drive. CONTACT DRIVE LED illuminates indicating pump or solenoid is energized, followed by FLOW LED illuminating, indicating pulsing and operation of flowmeter. The LED digits begin counting upward towards the selected batch quantity.
- * Upon the LED 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 selected batch quantity should correspond. If LED digits overshoot target, use PRACT (inflight, freefall) overflow deduct dials (located at the rear of controller unit) to scale back the difference.
- * To interrupt before completion of batch, push the STOP toggle - counting will stop, and drive contact will go off. 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 tests. TEST does not activate the pump or solenoid.

SPECIFICATIONS

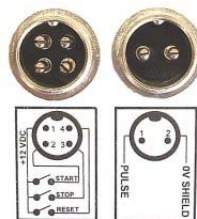
Power supply	220-260 vac (optional 110 vac or 12-24 VDC)
Output to flowmeter	12 VDC up to 100mA
Relay outputs	Max. 240 vac, 30 VDC 1 Amp
Frequency input	5 KHz: x1 input, 340 Hz: x17 inputs
Display	7 segment LED (14mm H)
Connection	10-pin Weidmuller mating plug and socket
Fuse	1 Amp (5 x 20mm case)
Batch selection	Visual rotary select switches
Batch commands	Push toggle switches
Rear of ME995-7 controller	
Mounting	Panel mount
Instrument housing	ABS hi-impact case
External dimensions	206 L, 130 H, 90 D mm
Panel cutout	190 L, 122 H mm
Weight	1 kg



ME995-6 in HB2500-SSR IP65 enclosure



SHB-1 Metal box wired, c/w contactor/plug/outlets.



External PLC Command Option



Batch Controllers interfaced in a Computer/PLC batch plant.

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