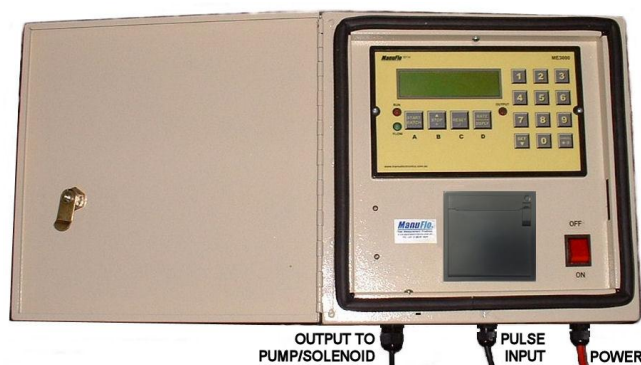


TMP Batching Printer System

FEATURES

- Batch Controller and Printer for automatic ticketing.
- Ideal for delivery trucks or loading and discharge locations where custody transfer docket is required.
- Prints Batch ID, quantity, time and date.
- Optional front port, for downloading internal log of 500 batches.
- Paper easily changed.
- Rugged IP64 hinged enclosure, with key lock.
- contains wired and mounted ME3000-SC Batch Controller and TTP-A5 printer.
- enclosure: 300 L x 300 H x 200 D mm.



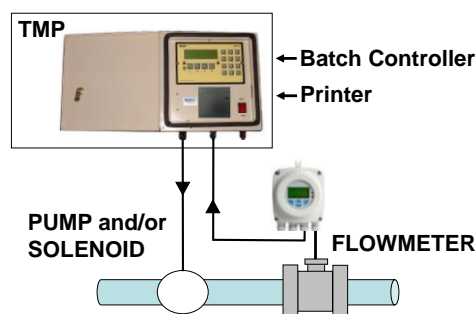
The TMP unit consists of:

- 1 ME3000-SC Batch Controller with serial interface
- 1 TTP-A5 Ticket Printer
- 1 Metal powder-coated box to IP64, with key lock
- 1 Paper Roll (57 x 46mm, 52g)

* BATCH DISPENSED *
B0035 29/06/05 14:35
0000002.1 L



Ideal for delivery trucks or loading and discharge locations where a custody transfer docket is required.



The TMP interfaces to other equipment:

- controls pump and/or solenoid; and
- receives pulses from flowmeter.

The TMP is wired to a pulse output flowmeter (e.g. ManuFlo PMS50 ProcessMaster), and to a pump and/or solenoid. Note that all flowmeters require a full pipe when measuring, so ideally the flowmeter should have a riser after it to keep the pipe full.

The TMP's component instruments are housed and protected in a rugged metal box, with a hinged key-lock lid. Since the enclosure is sealed to IP64, the unit can be mounted to the exterior chassis of delivery trucks. The Batch Controller and printer are prewired, making it simple to connect power supply and flowmeter pulses to the unit.

- The operator enters the required batch quantity into the TMP's Batch Controller;
- The TMP Batch Controller controls batch delivery (manually-operated hydraulic pumps can be converted to automatic control by installing a solenoid in the hydraulic line. The TMP then controls the solenoid to start and stop the liquid flow);
- At the end of each batch, the TMP (after a settable period of wait time after there is no activity) automatically provides batch quantity printout with date, time and Batch ID - ideal for delivery trucks or loading and discharge locations where a custody transfer docket is required. The printing of double dockets is optional, selectable via the menu (software version 2).

<u>Order Code</u>	<u>Description</u>	<u>Weight (unpacked)</u>
TMP-AC	240 vac powered Truck Mounted Printer	9.5 kg
TMP-DC	12-24 VDC powered Truck Mounted Printer	9.5 kg
-FP	Optional front serial port, and Serial-to-USB cable, so the internal log of 500 batches can be downloaded to a laptop.	

TMP - INSTALLATION INSTRUCTIONS

- 1 Select a mounting location that is easily accessible.
WARNING: To keep warranty valid, avoid excessive vibration i.e. mount away from pumps; use rubber dampeners to help buffer against vibrations.
- 2 According to the marked cable ends:
 - connect to flowmeter;
 - connect to pump and/or solenoid; and
 - connect to power. Measure that the voltage being received at the TMP is within the required voltage range e.g. 12-24 VDC for a DC unit. The maximum current draw of the system is 2.2 Amps

TMP - OPERATING INSTRUCTIONS (SHORT FORM)

- 3 Switch the TMP unit on, using the **rocker switch**.



SETUP FOR MANUAL BATCHING

To programme the ME3000 Batch Controller for manual batching:

- (1) In Program Mode:
 - set MIN FLOW to 0 Litres/sec;
 - set MAX BATCH LIMIT and MAX OVERBATCH to a value greater than the tanker's capacity.
- (2) Then, in normal operating mode:
 - press START button;
 - manually start and stop the flow of liquid e.g. manually operate pump;
 - press STOP button;
 - press RESET button;
 - a batch ticket will then print for the amount manually batched.

Printer LED and Paper Feed button

- The Printer LED will illuminate; and
- The Batch Controller LCD screen will display:
MANU ELECTRONICS

ME3000 Vx.x (where "x.x" is a version number)

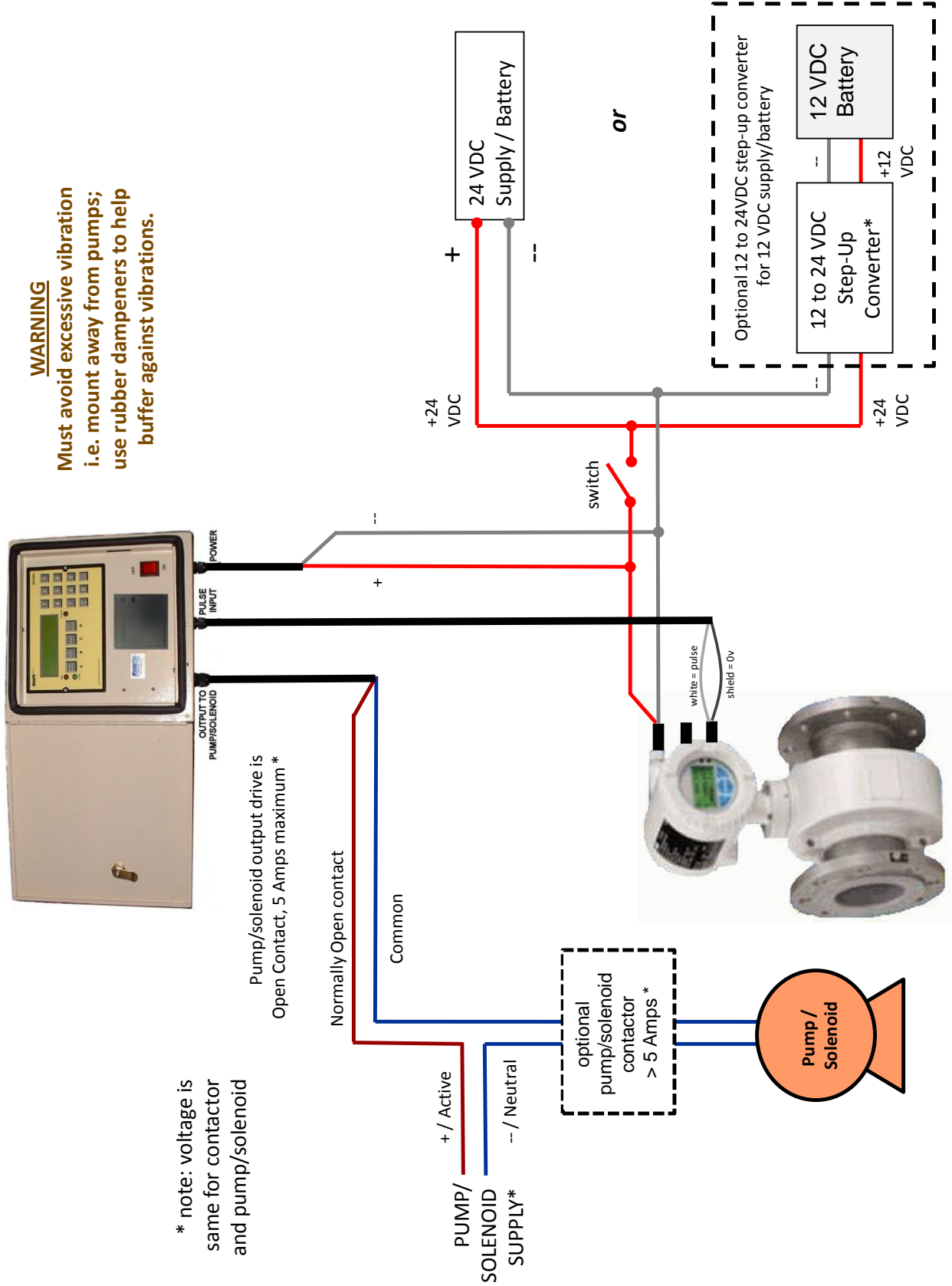
Optional **front serial port** to download internal batch log to a laptop.

- 4 Although the ME3000-SC parameters are factory set, make sure:
 - the real time clock is set to local time and date;
 - the Batch ID is set to the required initial value;
 - the Calibration Input is set to the correct pulses/Litre value according to the attached flowmeter (the ME3000 User Manual describes how to enter Programme Mode to examine or change settings).Ensure the printer is loaded with paper (see the printer manual).
- 5 The TMP unit is now ready for batching, and for the automatic printing of batch tickets. If mounted on a truck and batching for prolonged periods, the truck must be running, to keep the truck battery charged. When not in use, power to the TMP should be switched off. Note that electromagnetic flowmeters draw significant current, so if these are used then they should also be switch off as part of the same circuit (not necessary for conventional flowmeter types).
- 6 If the optional front serial port is fitted, then the internal log of the last 500 batches can be downloaded to a laptop. For download instructions, see the ME3000 User Manual.

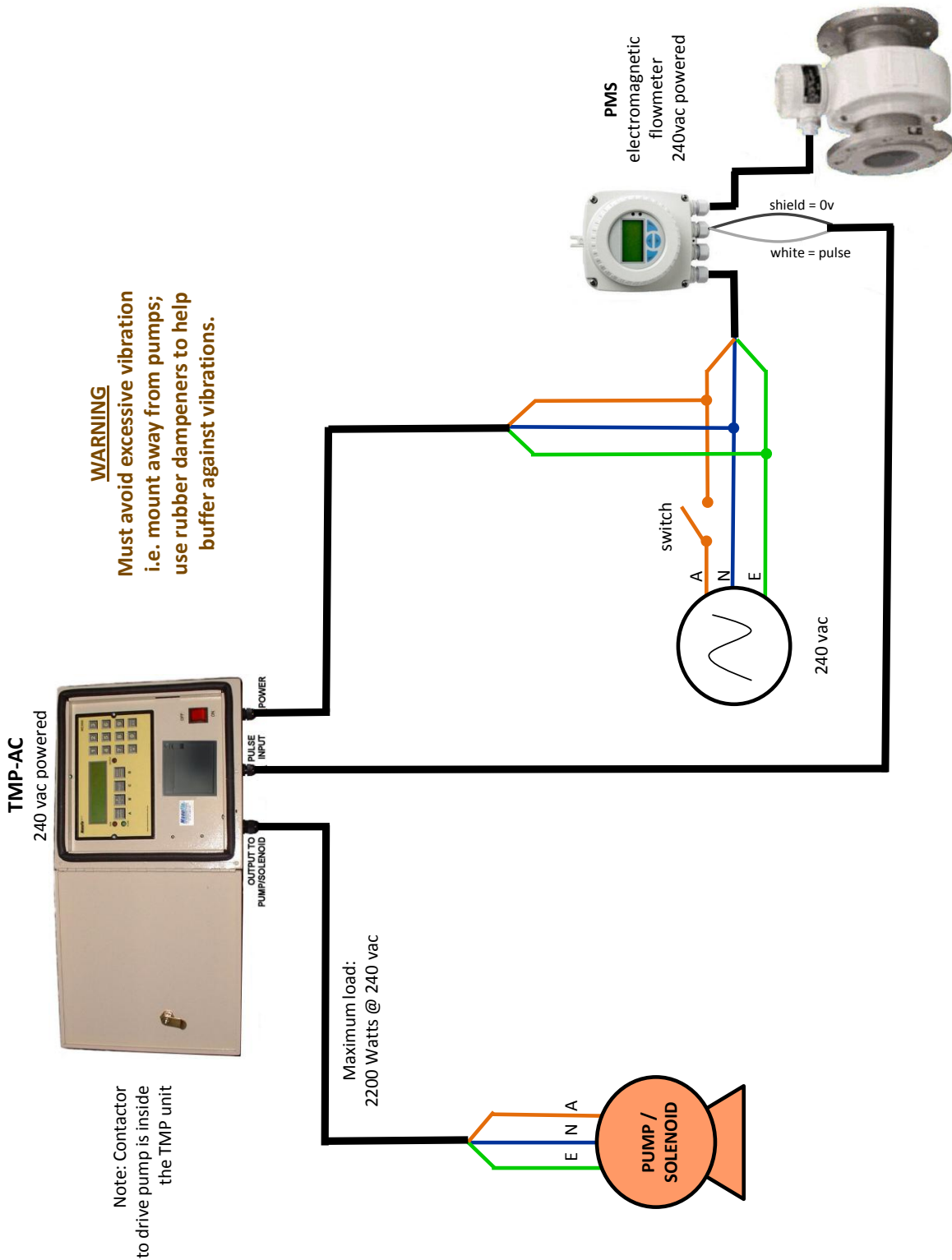
WIRING FOR DC-POWERED TMP SYSTEM

TMP-DC
12-24 VDC powered

WARNING
Must avoid excessive vibration
i.e. mount away from pumps;
use rubber dampeners to help
buffer against vibrations.



WIRING FOR AC-POWERED TMP SYSTEM



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