

Manu Interface Description

The Manu meter's used in the Concrete Industry generally do not come with an external command plug.

If your Company owns the Manu meters then sending these meters (one at a time) to Manu, for a small fee Manu Electronics will fit a external command plug which will allow Compu-Weigh to interface to your meters.

There are important differences between how Compu-Weigh uses Manu meters, and other suppliers of computerized concrete batching packages.

- 1.** The pulser is directly connected to the Compu-Weigh as well as the Manu meter.
- 2.** Some manufacturer's of batching systems cannot read the pulses as fast as the Manu meter can. Accordingly they install pulse dividing boards and only read every 10th pulse. This reduces accuracy.
Compu-Weigh can read pulses from as slow as 1 per hour to 4 million pulses per second.
- 3.** Compu-Weigh utilizes the existing Manu meter as a "double check". This means that if you leave the Manu meter set on the dose rate that the computer is dosing to, then you will be able to read the Manu meter and compare with the Compu-Weigh computer to see if they agree. The Manu can also be set as a maximum limit, stopping the flow if the wrong dose rate is entered in the computer
- 4.** At any time the Manu meters are available for manual operation when installed with a Compu-Weigh system. This can happen with the water Manu where the truck driver may come in for a 1000 litres of washout. (as long as there is not a batch in progress). This is also useful when an additive has to be dosed minutes after the batch is complete on the computer.
- 5.** Once the Compu-Weigh computer has delivered an additive or water, the computer holds the Manu meter in the stop position, preventing manual double dosing. To use the meter manually after such an event, a special keystroke will release the Manu meters for manual operation.
- 6.** Calibration of additives is usually only controlled by regulating the flow control valve on the additive pumps to control overshoot. With water however, the Manu meter has a pulses per litre setting. Compu-Weigh improves on this by allowing calibration of water more accurately than the Manu meter allows which may mean that on 500 litres of water, there will be a discrepancy between the Manu and the computer of perhaps a couple of litres.
- 7.** Compu-Weigh allows both normal and chilled water to be run through the same pipe work and use the same Manu meter. A flick of a switch on the panel changes from one to the other.
- 8.** Overdosing of additives usually occurs due to computer software or hardware problems. The Compu-Weigh has a separate board that controls the additives and once set will stop the additives at the right count even if you have quit the batching program and started something else like a word processor.