

Water Metering using Kent PSM water meters

Water Meter

- 1** The meter should be installed in the supply to the drinker header tank.
- 2** Follow instructions enclosed with meter. Make sure to install in correct direction of flow (incoming water supply at the opposite end to meter indication).
- 3** Install reed switch assembly.

Note : To prevent ingress of dirt and water, apply silicone grease or waterproof compound where the cable enters the reed switch assembly.

Technical information

The meter mechanism contains a small magnet which revolves as the meter turns. This operates the magnetic reed switch twice on each meter revolution.

The reed switch is a voltage free normally open contact, which closes in the presence of a magnetic field.

15/20mm meters = 1 pulse/contact = 0.5 litres

25/30/40mm meters = 1 pulse/contact = 5 litres

Connection

Connect reed switch exactly as if a temperature sensor = Sensor Gnd + Sensor Input Channel

BUT DO NOT install sensor input capacitor.

Sensor Input Voltage (normal/open circuit) = 5.00V

Sensor Input Voltage (contact made) = 0.08V

Configuration

In Dicam Logbook, check Input Devices. If the program has a "Water" device listed along with a channel number, connect to the channel shown.

If there is no "water" device listed, or if the channel number is not shown, then what you need to do depends on your program :

Programs 011/012-144 and greater

1	Select Input Channel to be used - usually, the next spare (unused) channel.
2	In Input Channels, set the chosen channel to TYPE = PULSE.
3	If the program has a "water" device listed in Input Devices, set the water device to the channel used.
4	Connect the meter to the channel chosen
5	Check operation using Test : Information : Input Chans.

Programs before 011/012 - 144

1	Select Input Channel to be used - usually, the next spare (unused) channel.
2	Connect the meter to the channel chosen
3	Check operation using Information : Water