

The Kent Range of Metering Products

Pulse Unit – Snap-Fit

For retro-fitting to V200, V210, V120 and V140 meters

V200, V210, V120 and V140 meters all have a facility for the retro-fitting of a pulse unit.

The Dual Range V210 (manifold), V200 (in-line) and larger capacity V120 (manifold) and V140 (in-line) meters, all have the facility for a magnetically operated (reed switch) pulsed output, by the retro-fitting of a dedicated snap-fit pulse unit, (grey in colour) common to all products above. The pulse unit is fitted with a 100Ω series resistor to protect the reed switch from power surges and is usually provided with a 5 metre length of cable, terminating in a sealed flying lead.

V200, V210, V120 & V140 PULSE UNIT

INSTALLATION INSTRUCTIONS

Location and Operating Principle:

The volt free pulse is generated by the rotation of the 1 litre / revolution magnetic pointer. As the pointer rotates and the magnet passes the reed switch, it pulls the contacts together.

This produces 1 Pulse / Litre.



Pulse Unit Fitting Instructions:

If the meter is fitted with a lid, this needs to be removed, by gently sliding it outward to its extreme position and lifting it vertically from the shroud. The pulse unit should be lowered vertically into the same location ('A') and pushed down against the glass face of the counter.

Note: Some resistance will be evident as pressure is exerted against the pulse unit, just before it snaps down against the glass counter face. This is a characteristic of the snap-fit design and requires no further action.

Note: Previous versions of V120/V140 meters were fitted with a black wrap-round shroud. The pulse unit location was designed to allow the pulse unit (also black), to slide across the face of the counter, over the magnetic pointer. On this version, a T-bar locking device was provided.



'A' Pulse unit in vertical position for installation.



'B' Pulse unit located against face of counter.

Cable Identification and Wiring Details:

The factory potted cable used for the V200 / V210 Pulse Unit is defined as 4 x 7 / 0.2mm with Red, Black, Blue and Yellow as the core colours, contained within a white outer sheath.

Low Resistance with Loop-Back. RED and BLACK are the volt free pair of contacts. The Blue and Yellow cores are for the Loop-Back and can be cut back and discarded, as they are not required for normal pulse read use. Connections are not polarity sensitive.

Note: The reed switch assembly is rated at 50 Vdc maximum working.

Current Product Code: RR5LRPX005X.

Previous (Black) Product Code: RR2LRPX005X

The duty cycle of the switch closure is typically 70% on, 30% off.

Health and Safety at Work Act 1974

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 - Regulations (such as the COSHH Regulations, Manual Lifting Regulations, Personal Protective Equipment Regulations), British Standards and other applicable ISO and European Specifications and Codes of Practice, as applicable to the intended application of the products.
 - Regulations for electrical equipment of buildings (published by the Institution of Electrical Engineers).
 - Catalogues and product leaflets of this Company or literature which may be obtained by specific request to the Company.
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