

FIGURE 4

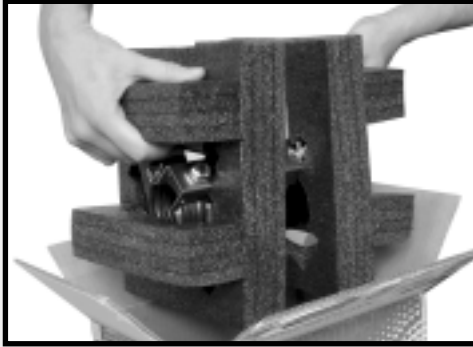


FIGURE 5



FIGURE 6

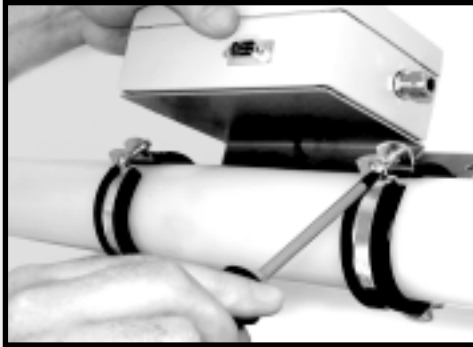


FIGURE 7



STEP 7 When the instrument is powered up the green LED will light up almost immediately. After about three seconds the red LED will also light up. If the green LED does not illuminate, disconnect the power and check that the power wiring is correct. Also check that the wiring to the LEDs has not been disturbed (see figure 3). If the problem persists then contact Micronics.

STEP 8 Release both of the wing nuts holding the transducers in the guiderail so that they are forced on to the pipe surface by the action of springs as shown in figure 7. As soon as both transducers are in position the red LED will go out.

STEP 9 The meter will now produce a current or pulse output as specified by the user and set in the factory.

STEP 10 Completely remove the wing nuts so that the transducers cannot be drawn up from the pipe as shown in figure 7.

No further adjustment is required providing that the application data supplied by the user is correct and the instrument is mounted according to that data.

Ultraflow 100

Ultrasonic clamp-on flow meter

Installation Instructions



The UF100 flow meter is ready for immediate installation when removed from its protective packaging.

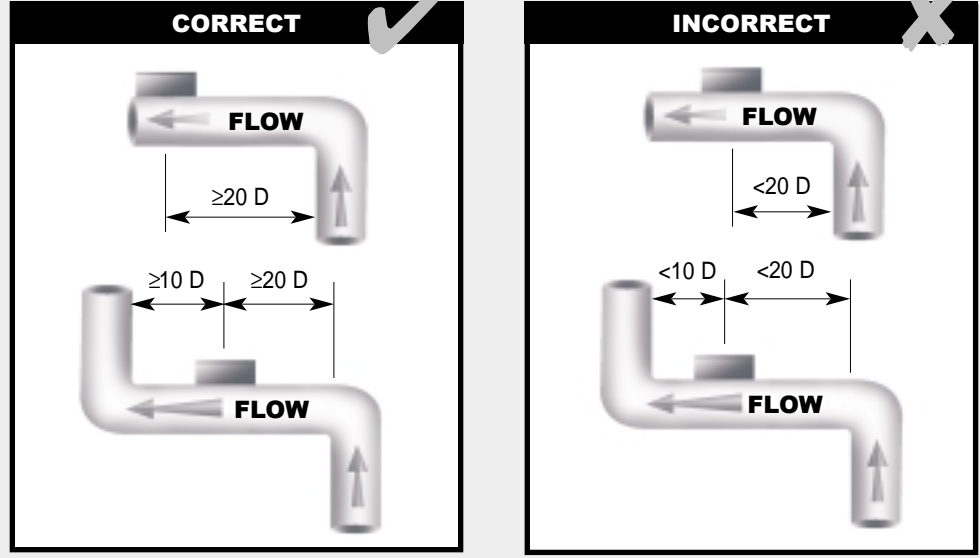
The meter has been pre-calibrated for your particular application and the details are recorded on the label affixed to the front of the electronics housing.

This meter will not read correctly if used on a different application.

Any attempt to use the meter for any application other than that described on the label will immediately nullify the warranty. Please read and follow these set up instructions carefully.

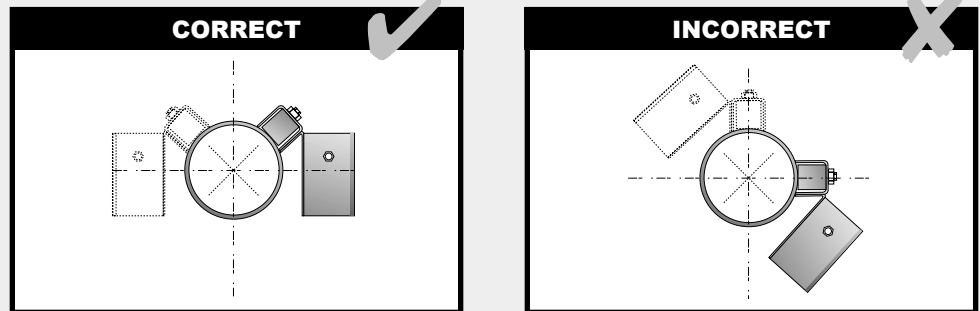
STEP 1 Select a mounting position observing the simple rules as shown in figures 1 and 2.

FIGURE 1



Transducers can be mounted on both vertical or horizontal pipe runs. On horizontal pipes it is recommended to mount them about 45 degrees from vertical, due to potential problems with sediments, air bubbles or flow profile. Best practice is only to measure flow upwards in vertical pipes. If the flow is downwards contact Micronics.

FIGURE 2



STEP 2 Prepare the pipe surface where the transducers will be making contact with the pipe. On older pipes remove all flaking paint or rust. Remove back to the bare metal, leaving a clean smooth surface on which to mount the transducers.

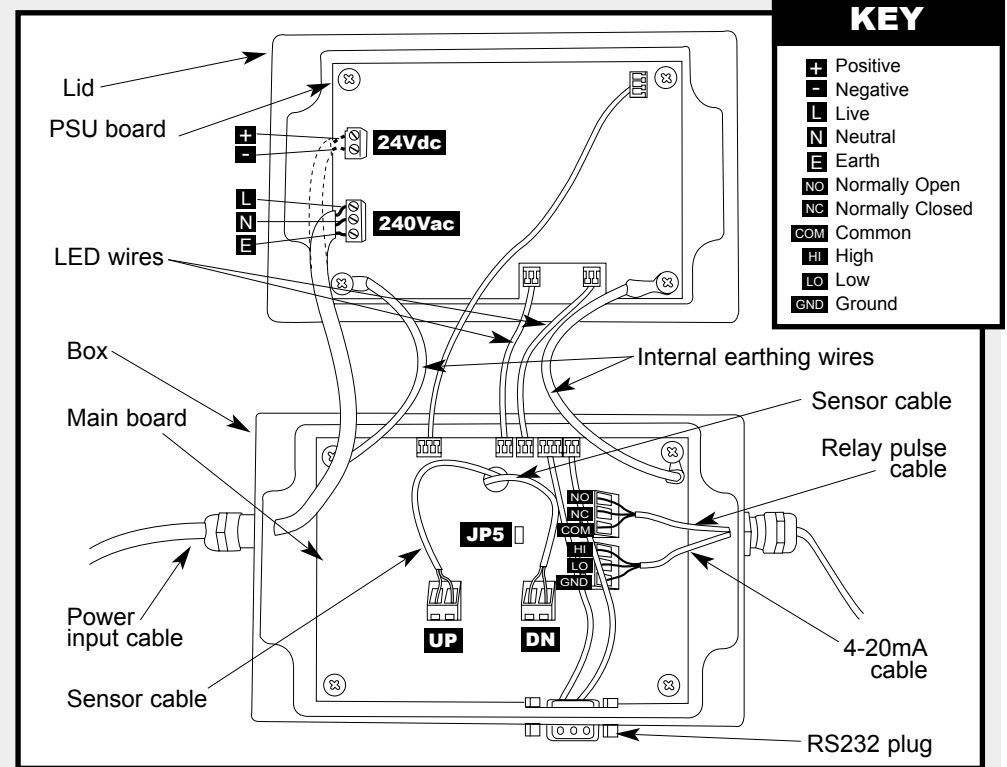
STEP 3 On steel pipes ensure that the transducers are not sited on or directly opposite a weld or join.

STEP 4 Carefully withdraw the unit from the packing and remove the protective cover from the guiderail as shown in figures 4 and 5. Do not touch the grease or dry silicone interface on the face of the sensors.

STEP 5 Loosen the pipe clamps and attach the flow meter to the pipe as shown in figure 6.

STEP 6 **WARNING: THIS UNIT SHOULD BE WIRED BY A QUALIFIED ELECTRICIAN.** All electrical connections are accessible by removing the lid which is held in place by 4 screws. Wiring connections are shown in figure 3. If the flow direction in the pipe is opposite to that indicated by the arrow label on the guiderail, remove the link on JP5 (and reverse the arrow label). After connecting the power supply and output cables, replace the lid and fasten it's 4 screws. Take care not to trap any internal wires.

FIGURE 3 - INTERNAL ELECTRONICS





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)1245 600560

Fax: +44 (0)1245 600030

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.