

## TRANSDUCER FITTING INSTRUCTIONS

### Transducer fitting;

WON transducers have a 1/8 BSP thread which means there is a range of alternative ways they can be fitted in to a WON system.

When possible the nitrous transducer should be fitted on the back side of the valve, where it will cause no disturbance to the nitrous flow. When using a Max Flow valve this is simply a matter of fitting it as shown.

When fitting to any other valve or for convenience (which isn't as safe), the transducer can be fitted to the outlet side of the valve using an appropriate T piece or a 4 way distribution block if a gauge is also to be fitted, as shown in the pictures below.



**Billet alloy 4 way block**



**Billet alloy 3 way connector**



**Plated brass 3 way connectors**



**External Dowty seal**



**Internal face seal**

The same 4 way block can be used when running twin bottles to link them together and provide a common port for the transducer as shown below.

The fuel transducer should be fitted as far from the fuel Pulsoid as possible (to avoid the pressure fluctuations caused by the pulsing), to smooth out the pressure it experiences and this can be done using an appropriate T piece the 4 way block as required.

In all cases the transducer should be fitted to the appropriate component as detail in the following instruction sheet;



## Plug assembly and fitting;

Feed the wires through the retainer cap, through the rubber grip and into the connector cap.

Secure the wires to the appropriate terminals as indicated in the appropriate diagram.

Secure the connector assembly to the plug cap using the screw collar.

Secure the wires in the plug by screwing on the threaded retaining cap.

To add neatness to the joint between the plug assembly and transducer, a suitable sized spacer is provided that should be fitted over the threads prior to fitting the plug assembly. Secure the plug to the transducer using the nurlled and threaded metal collar.



## Wiring instructions;

The power and ground terminals on both fuel and nitrous transducers are located on the same pins;

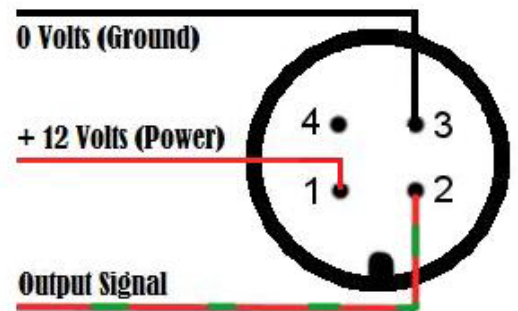
Power – Pin 1

Ground – Pin 3

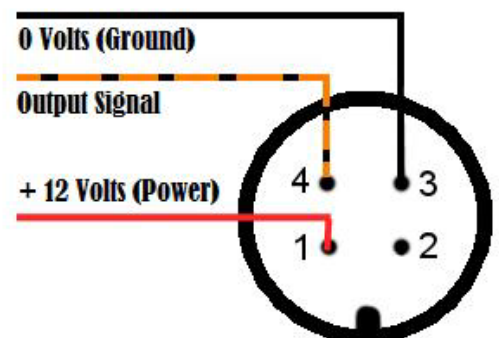
However the output signal connections are different;

Pin 2 for the fuel transducer

Pin 4 for the nitrous transducer



**FUEL TRANSDUCER WIRING DIAGRAM**



**NITROUS TRANSDUCER WIRING DIAGRAM**