

**TECHNICAL
APPLICATION
NOTE**

MetronFarnier
Advanced Single-Jet Technology

HRI Switch Output Module

Compatible with 6D v2.0 OER registers

MEtron-Farnier offers a detachable module which provides a switch output on a 6-dial OER register to be used as a SCADA or datalogging output. The S.O. Module is not intended as an AMR output. The standard encoder output from the register should always be used for the AMR function.

Note: Switch Output module will only work with 6D registers with the grey housing.

Installation

The Switch Output module attaches to the register housing with a plastic clip. The clip attaches to the upper lip of the register housing and covers the serial number engraving. Once installed, the module sits over the top of the rotating test circle at the lower half of the register face.



Register Face/Housing



With P.O. Module Installed

The module does not require any sealing or gaskets.

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Wiring

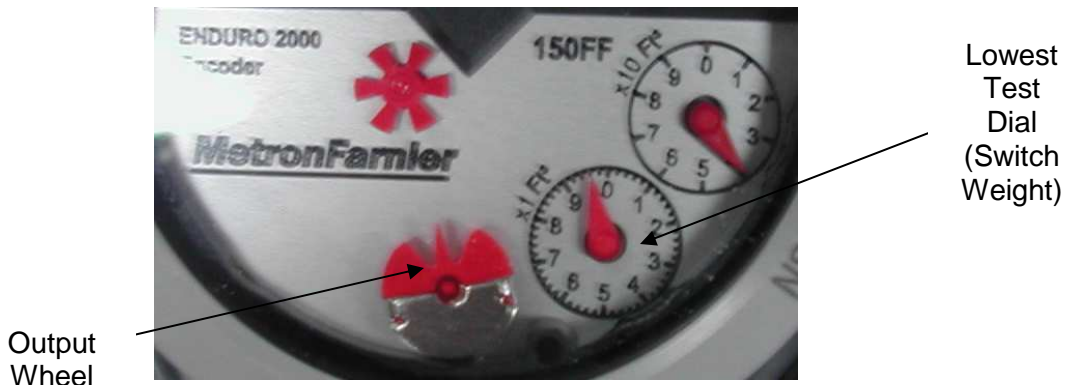
The S.O. Module has an output cable with four wires:

White:	Positive (+)
Brown:	Ground
Yellow:	N/A
Green:	N/A



Output

The S.O Module utilizes magnetic sensor to measure the rotation of the output wheel on the lower half of the register face. Upon each revolution of the wheel, an electronic switch closes for ~120ms. The weight (value) of the switch closure is dependent upon the meter model but will always weigh the same as the lowest test dial (1 ft3 in the example below).



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