

Accurately easing fuel consumption measurement in Malaysia

Problem case

The National Electricity Board of Malaysia, Tenaga Nasional Berhad (TNB) wanted a reliable measurement of the actual diesel consumption of their mobile truck generators. In total 26 truck generators were each equipped with two Oval PD Flow Meters (model Flowpet), for which an accurate flow measurement had to be realized. Considering the sometimes rough usage of the trucks, the measurement equipment had to be very robust and rugged, with a good price-quality ratio.

Fluidwell solution

Fluidwell has the capability to record actual diesel consumption with great accuracy. Fluidwell partner in Malaysia, [Maroil Technologies](#), worked closely together with the main contractor of TNB and proposed the Fluidwell F116-P flow computer. Each flow computer, 26 units in total, is wired to the two Oval PD flow meters via an open collector pulse input to the F116.

The usual difficulties encountered in such applications include: pulsating flows, very low consumption readings and / or vibrations. To guarantee an accurate liquid measurement, these challenges are all well catered for in the design and operation of the F116.

This user friendly and competitively priced flow computer can also be panel mounted, which is highly practical for on-truck installations. The Fluidwell F-Series is widely known for its ruggedness and for being all-weather proof (IP65 for panel mount; IP67 for field mount). The F116 can operate either on a lithium battery (for up to seven years!) or with direct power supply. In this case, TNB preferred using direct power supply.

Results

- ✓ A satisfied customer (TNB) who was now eased with accurate readings.
- ✓ Full flexibility, with a compliant flow computer installed to their current flow meter equipment.
- ✓ Very cost effective, combining low installation and operating costs (performed by own crew and not expensive experts), high quality, user friendliness and quick installation, creating a superb value for money ratio.

TNB expressed great satisfaction and placed a new order for an additional three units, which is good proof to show that the F116 meets their expectation targets and benchmark.

More advantages

The mounting possibilities of the F-Series are diverse (wall, pipe, directly onto the (outdoor) sensor, or panel mount). The various power supply options, either lithium battery with a lifetime of 7 years, or multiple direct power supply options are being valued as very convenient and competitive in the market nowadays. Additionally, the F-Series does not require expensive maintenance. A periodic check on the casing, cable glands and wiring is more than sufficient.

More information on the Fluidwell F-Series: [General information Fluidwell F-Series](#)
Information and datasheet [F116](#)
[General brochure Fluidwell F-Series](#)

Diesel generator



Generator instrumentation panel



Panel mounting with back cover



Mounting an F116 into a panel

