



PRODUCT APPLICATION REVIEW

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Fuel Consumption Monitoring

APPLICATION

A manufacturer of agricultural and construction heavy equipment tests new equipment in the field in a variety of operating conditions. Test data is collected to monitor equipment productivity and efficiency. Fuel consumption will be recorded but a local display is also needed.

MCMILLAN PRODUCTS UTILIZED

220 Rate/Totalizer Display
102-6T Liquid FLO-SENSOR
100-17T Cable Assembly

DESCRIPTION

The McMillan 220 Rate/Totalizer Display provides a visual reference for the operator. The Model 102-6T Liquid FLO-SENSOR has a dual output, pulse and analog, for the Model 220 and data acquisition system. Vehicle system voltage 12VDC powers the FLO-SENSOR via the 100-17T Cable Assembly.

OPERATION

While operating the equipment fuel to the engine is measured by the FLO-SENSOR, recorded by the Model 220 and data acquisition system. The Model 220 is mounted on the instrument panel for the operator.

ADVANTAGES

The Model 220 can display flow rate or total in milliliters, liters or gallons per second, minute, hour or day. The panel reset button can be disabled to prevent the operator from tampering with data collection. The Model 102-6T is constructed of brass and has a maximum pressure rating of 500PSI. NIST Traceable calibration certificate and recalibration service is available from McMillan Company.

DIAGRAMS

Figure 1 illustrates the flow path of the fluid system. Figure 2 illustrates the wiring of the system.

FIGURE 1 – Flow Path of Fluid System

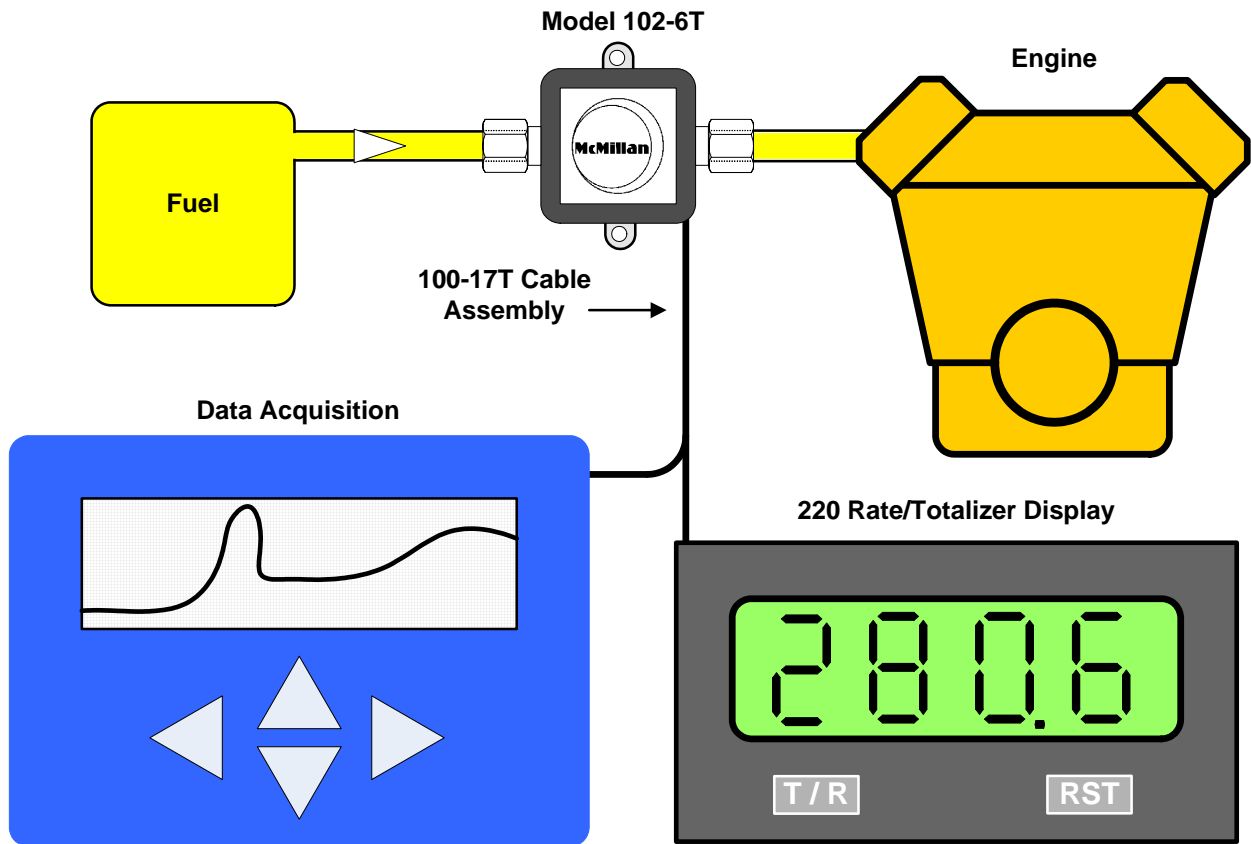


FIGURE 2 – System Wiring

