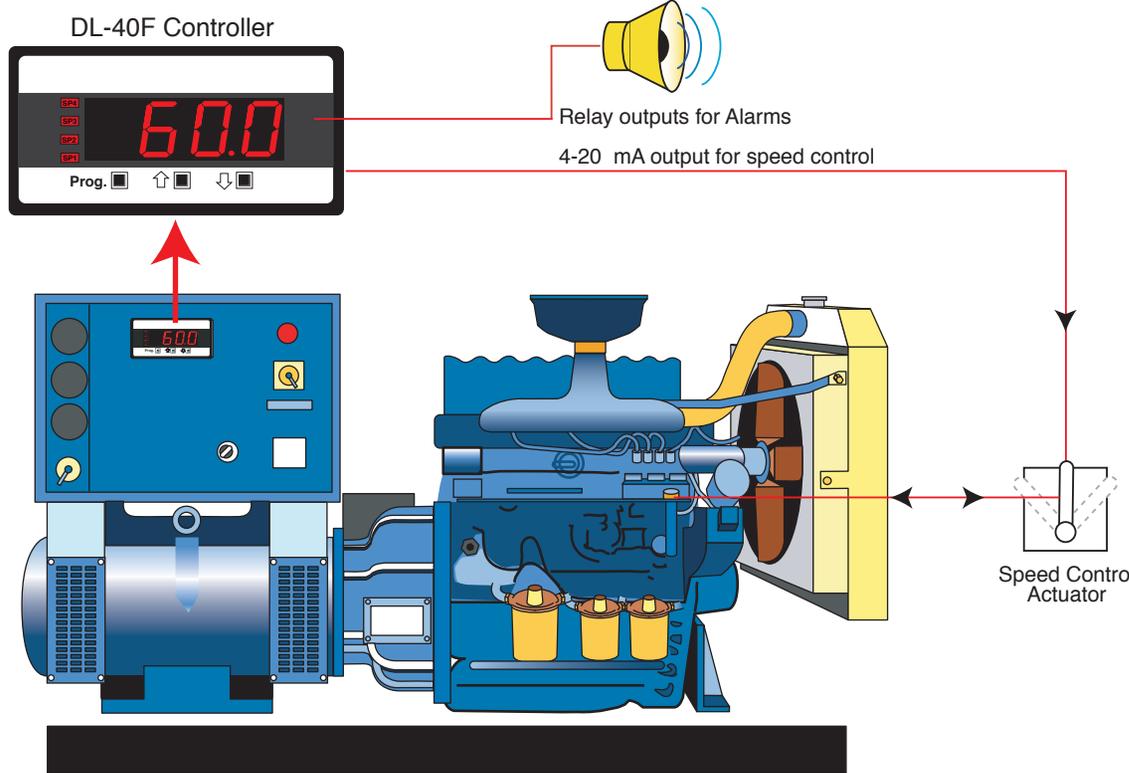


Our customer has a motor generator set that requires to be controlled at 60 Hz output frequency. Texmate installed a DL-40F controller to measure and display the frequency and to control the motor speed control actuator via the 4-20 mA analog output. The analog output is scaled at 55 Hz for 4 mA and

65 Hz for 20 mA. The speed control actuator is set to 12 mA to govern the speed at a generator output of 60.0 Hz. If the frequency falls below 60.0 Hz, the motor speed increases. If the frequency rises above 60.0 Hz, then the motor speed decreases.



APPLICATION FUNCTIONS

RELAY OUTPUTS

ANALOG OUTPUTS

INPUTS

VOLTS AC

AMPS AC

FREQUENCY
RPM, Pulse, Counter

OPTIONS & VARIATIONS

- Up to 6 super smart relay outputs, digitally programmable upper and lower limits.
- Programmable deviation mode, hysteresis mode, latch ON or latch OFF.
- Built-in super smart timers on each setpoint.
- Programmable DOM to eliminate nuisance tripping.
- Power ON inhibit to avoid tripping during power up.
- 4-20 mA or dual 0-10 V, 16-bit analog output.
- RS-232 or RS-485.
- ModBus.
- Direct serial printer output.
- Data logging with real-time clock.

DI-503 Controller



Single Phasase System

VOLTAGE INPUTS
0-300 VAC or 0-700 VAC

CURRENT INPUTS
0-1 amp (CT) or 0-5 amp (CT)

4-20 mA
to speed actuator

From Generator Output

DISPLAY AND CALCULATE

Voltage (R.M.S.). Current (R.M.S.).
Frequency. Watts, kilowatts. Watt hours, kilowatt hours.
Power factor monitoring for precise load sensing.

Suggested Ordering Code Options for This Application

Basic Order Codes	Comments
DL-40F-DR-PS1-IF08-AIC	4-20mA output for speed control. Relays for alarms.
DI-503E-DR-PS1-IW05-AIC	Single Phase. Control and display Freq. Volts and amps. PF, kW, kWh.