

EG3002

Universal Electronic Engine Governor Controller

Engine Start Smoke Limiting & Idle Speed settings

Works with External, Built-in and PT-Pump type and hydraulic drive actuators

Newly added "extreme slow response" engine setting

Features

- Can be used in a wide range of input frequencies
- 15 Amp maximum current output
- Suitable for all diesel, natural gas, and petrol (gasoline) engines
- Fast response time limits variations in speed (high stability)
- Injected epoxy housing provides high resistance to moisture, vibration, and oxidation
- Can connect with external potentiometer for remote speed control
- Adjustable Engine Idle speed setting
- Accepts analog signal inputs from other controllers to control speed



Specifications

Operating Voltage	10 – 32 Vdc
Outputs Current	Continuous 7A, Max. 15A for 10 seconds
MPU Frequency input	10 – 10,000 Hz
MPU Voltage input	1 – 120 Vac
Idle Adjustment Range	30 – 90% of Normal Speed
Speed Temperature Shift	-40 to +80 °C, less than 3%
Ramp Time	3 – 20 seconds (adjustable)
Remote Speed Adjustment Range	+/-7% @ 5 KΩ 1 Watt potentiometer
Isochronous Load Sharing (ILS)	+/-5 Vdc or 0 – 10 Vdc
Speed Droop (DROOP)	0 – 4% (adjustable)
Stability	Speed variation less than +/-0.25% at constant load
Static Power Consumption	Less than 1 Watt @ 12 Vdc Less than 2 Watt @ 24 Vdc

Control Characteristic Settings

DROOP	Speed Droop setting
GAIN	Gain setting
INT.	Integral setting
DIF	Differential setting
RAMP	Ramp Time
IDLE SPEED	Idle speed setting
RUN SPEED	Operating speed setting

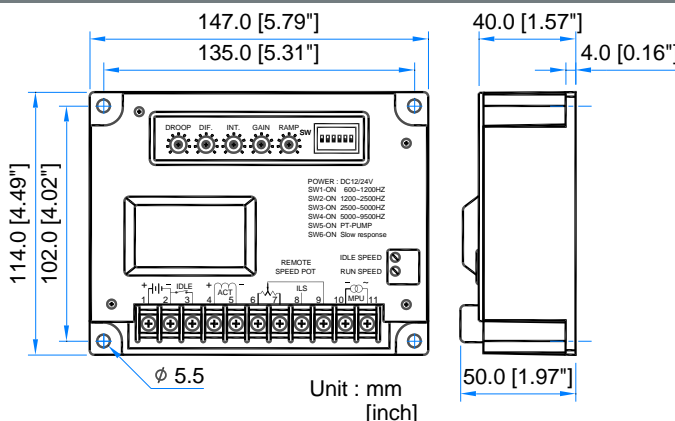
Environment

Operating Temperature	-40 to +80 °C
Storage Temperature	-40 to +85 °C
Relative Humidity	Less than 95%
Vibration	5.5 Gs @ 60 Hz

DIP Switch Settings

SW1	ON	600 – 1200 Hz
SW2	ON	1200 – 2500 Hz
SW3	ON	2500 – 5000 Hz
SW4	ON	5000 – 9500 Hz
SW5	ON	Cummins PT PUMP
SW6	ON	Extreme slow response engine

Diagram and Dimensions



Physical Characteristics

Dimension	147.0 (L) x 114.0 (W) x 50.0 (H) mm 5.79 (L) x 4.49 (W) x 1.97 (H) inch
Weight	690 g +/-2% 1.52 lb +/-2%

*All manufacturer names and numbers are used for reference purpose only and do not imply that any part is the product of these manufacturer.



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