CATTRON

DynaGen™

TOUGH SERIES™ PRO TE600 / TG600

AUTOSTART OR MANUAL CONTROLLER FOR INDUSTRIAL ENGINES

HIGHLIGHTS

- Designed for complete control, protection and engine instrumentation on mechanical or electronic engines
- Easily configured using the front panel buttons or the RapidCore™ configurator software
- Ideal for sever duty applications where reliability is critical
- Supports all major diesel engines including mechanical Tier III, Tier IV Interim and Tier IV Final
- Support for spark ignition engines across most brands
- Tier 4F and Euro Stage V compliant. Call factory for engine types
- Able to withstand light pressure washing at 1200 psi at 1 foot away
- OEM private label branding available

FEATURES

- Sunlight readable color display
- Supports mechanical or CANbus J1939 engines
- Configurable Diagnostic Trouble Code (DTC) readout
- Manual and automatic modes
- Front panel RPM adjustment buttons
- Full electronic variable speed control over J1939
- Conformally coated for protection against moisture and contaminants
- Front panel gasket for panel water ingress protection meets IP67 standards
- Configurable remote bump speed control
- Configurable ramping control with 3 set points: idle, intermediate and goal RPM
- Adjustable min and max RPM limits
- Configurable startup speeds based off running mode (auto or manual)
- Single or dual float switch input control
- Autostart trigger on sensor value (pressure, temperature, level voltage)
- Closed loop control using feedback from sensors such as level and pressure (maintain- in and maintain-out)
- Built-in weekly scheduler
- Maintenance counter
- A full selection of timers and long-time run function
- Easy-to-use field configuration from front panel menu (passcode protected)
- Supports standard Modbus RS485 communications
- Configurable/replaceable buttons with custom text
- Fits same cutout as TE350/410 controllers and TG350/410 controllers

OPTIONS

- AC current sensing standard for generator applications available for TG600 model only



TE600



TG600

TECHNICAL DATA AND SPECIFICATIONS

Battery

Range	5.5 - 38 VDC
Cranked Dropout to 0VDC	50ms
Reverse Battery	Yes
Standby Current	45mA

Display

Resolution	480x272 (WQVGA)
Diagonal	4.3"
Type	TFT
Storage Temperature	-40°C to 85°C
Operating Temperature (w/o heater)	-30°C to 85°C
Outdoor Readable	Yes
Brightness	1000 nit
Contrast Ratio	600:01:00

Buttons

Number	6 + 5 soft buttons
Relegendable Key Caps	Yes

Mechanical

Dimensions	7.44" x 4.9"
Cutout Size	6.44" x 4.04"
Sealed Enclosure	Meets IP67 requirements
Sealed to Panel	Meets IP67 requirements
Connectors	2 x 35 Pin AMPSEAL

Communication Ports

CANbus J1939	
Number	1
Modbus RS485	
Number	1
Software Configurable Internal Resistor	Yes (120 ohms)
USB	
Mode	Slave

Inputs

Switched Inputs	
Number	12
Software Configurable	Yes
Minimum Trigger Delay	<100ms
Decision Threshold	3 VDC
Analog Inputs	
Number of inputs	10
Software Configurable	Yes
Separate Battery and PCB Temp Measurement	Yes
Accuracy	+/- 2%
Frequency Inputs	
Number of Inputs	1
Range (input 1)	10-10,000Hz at 1~50 VAC
Internal Sensors	
Battery Voltage	Yes
Internal Temperature	Yes
AC Voltage	
Number	3 Phase
Max Voltage	6 VRMS
Accuracy	1% full scale (600V)
Configuration	Single Phase 2 & 3 Wire Delta 3 & 4 Wire Wye 2,3 & 4 Wire
AC Current	
Amount	3 Phase
CT Type	5A Secondary
Accuracy	2% Full Scale

Outputs

Switched Outputs	
Number	10
Type	High Side Switches
Max Current per Channel	1A
Logic Level Drive Capable	Yes

Other Features

Real-Time Clock	Yes, 5 year backup
Protected 5V Supply Output	Yes, 0.4A
Custom Branding	Yes
Warranty	Five-year warranty or 17,500 hours

North America: +1.234.806.0018 | Sales.US@Cattron.com

Europe: +49.2151.4795.0 | Sales.EU@Cattron.com

UK: +44.1932.238121 | Sales.UK@Cattron.com

South America: +55.19.3518.7030 | Sales.BR@Cattron.com

Asia: Sales.CN@Cattron.com

Oceania: Sales.AU@Cattron.com

cattron.com

DynaGen_TOUGHSeries_TE/TG600_Datasheet_Apr2021

Information provided on this datasheet by Cattron and/or its partners is to be used for reference purposes only. Cattron reserves the right to change specifications and product details on this datasheet without prior notice. Cattron™ and all associated logos or marks are trademarks of Cattron and/or its subsidiaries. All rights reserved.