# 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
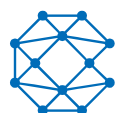- Fits same cutout as TE350/410 controllers and TG350/410 controllers

**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<br>Delta 3 & 4 Wire<br>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 |

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