The D-200 is the lowest cost genset controller with full set of features, ready for internet monitoring.

**FEATURES**
- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 6 configurable digital inputs
- 5 configurable digital outputs
- 3 configurable analog inputs
- Standard MPU input
- Optional CANBUS-J1939
- 3 configurable service alarms
- Dual mutual standby with equal aging of gensets
- Manual “speed fine adjust” on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable from USB & GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- Easy USB firmware upgrade
- IP65 rating with optional gasket
- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires

**COMMUNICATION**
- 4-band GPRS modem (optional)
- USB Device
- J1939-CANBUS (optional)
- Geo-locating through GSM
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU

**FUNCTIONALITIES**
- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller

**MEASUREMENTS**
- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAR, pf
- Engine speed
- Battery voltage

**TOPOLOGIES**
- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires
 Alternator voltage: 0 to 300 V-AC (Ph-N)
 Alternator frequency: 0-600 Hz.
 Mains voltage: 0 to 300 V-AC (Ph-N)
 Mains frequency: 0-600 Hz.
 Topology: 1-2-3 phases, with or without neutral
 DC Supply Range: 8.0 to 36.0 V-DC.
 V-A-cos Accuracy: 0.5% + 1 digit
 kW-kVA-kVar Accuracy: 1.0% + 1 digit
 Current consumption: 500 mA-DC max @ 12V-DC
 Current Inputs: from current transformers ..5A.
 Digital inputs: input voltage 0 to 36 V-DC.
 Analog input range: 0-5000 ohms.
 Mains and genset contactor outputs: 16Amps@250V
 DC Outputs: Protected mosfet semiconductor outputs, rated 1Amp@28V-DC
 Cranking dropouts: survives 0V for 100ms.
 Magnetic pickup voltage: 0.5 to 50Vpk.
 Magnetic pickup frequency: 0 to 20000 Hz.
 Charge Alternator Excitation: 2W.
 Display Screen: 2.9", 128x64 pixels
 USB Device: USB 2.0 Full speed
 Operating temperature: -20°C to 70°C (-4 to +158 °F)
 Storage temperature: -40°C to 80°C (-40 to +176°F)
 Maximum humidity: 95% non-condensing.

 IP Protection: IP65 from front panel, IP30 from the rear (with gasket)
 Dimensions: 133 x 107 x 46mm (WxHxD)
 Panel Cut-out Dimensions: 117 x 87 mm minimum.
 Weight: 250 g (approx.)
 Case Material: High Temperature, non-flammable ABS/PC
 Installation: Flat surface mounting on a Type 1 enclosure. Rear retaining plastic brackets.

 EU Directives Conformity
 -2006/95/EC (low voltage)
 -2004/108/EC (electro-magnetic compatibility)
 Norms of reference:
 EN 61010 (safety requirements)
 EN 61326 (EMC requirements)
 UL & CSA Compatibility:
 -UL 6200, Controls for Stationary Engine Driven Assemblies (Certificate # - 20140725-E314374)
 -CAN/CSA C22.2 No. 14-13 – Industrial Control Equipment
WAVEFORM DISPLAY & HARMONIC ANALYSIS

Waveform Display  Graphical Harmonics  Digital Harmonics Display

RAINBOW PLUS PROGRAM

Scada  Harmonic analysis & Waveform

RAINBOW SCADA CENTRAL MONITORING

Fleet Display on Map, online monitoring  Smartphone Support

Real time monitoring
TYPICAL CONNECTIONS

ALTERNATOR

LOAD

L1 L2 L3 N

MAINS

L1 L2 L3 N

FUSE FUSE FUSE

GC MC GC

SIM CARD

GSM ANT.

GEN-C 51 52 54
GEN-L 53 55 56
GEN-H 57 58

1 to 30Vdc, 300mA max.
300Vac, 0-600 Hz
0.2 to 6.0 Aac

STarter Motor

F u s e

C r a n k

C r a n k

G e n e r a t o r

F u e l

O i l P r e s s.

F u e l L e v.

S e n d e r

S e n d e r

S e n d e r

M P U

* Connect to engine body, close to the senders.
* Ground from one end only.
* Optional terminals

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