TECHNOLOGY IS NOW FOR EVERYONE

THE NEW WEB BASED D-500

The D-500 is an advanced genset controller capable of every possible communication and functionality.

COMMUNICATIONS
- Ethernet port (10/100Mb)
- GSM-GPRS
- Internal GPRS modem (optional)
- Embedded web server
- Web monitoring
- Web programming
- Central Monitoring through internet
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Free Central Monitoring (100 genset)
- Modbus RTU through RS-485
- Modbus TCP/IP
- SNMP
- USB Host (optional)
- USB Device
- RS-485 port, adjustable baud rate
- RS-232 (optional)
- Micro SD card slot (optional)
- J1939-CANBUS

FUNCTIONALITIES
- AMF unit with uninterrupted transfer
- ATS unit with uninterrupted transfer
- Remote start controller
- Manual start controller
- Engine controller
- Remote display & control unit
- 400 Hz enabled
- Waveform display of V & I
- Harmonic analysis of V & I
- CTs at genset or load side
- Long term recording on flash card

TOPOLOGIES
- 2 phases 3 wires, L1-L2
- 2 phases 3 wires, L1-L3
- 3 phases 3 wires, 2 CTs
- 3 phases 3 wires, 2 CTs (L1-L2)
- 3 phases 3 wires, 2 CTs (L1-L3)
- 3 phases 4 wires, star
- 3 phases 4 wires, delta
- 1 phase 2 wires
**TECHNICAL SPECIFICATIONS**

**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.
**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.
**Ethernet Port:** 10/100 Mbits
**USB Device:** USB 2.0 Full speed
**USB Host:** USB 2.0 Full speed
**RS-485 Port:** selectable baud rate
**RS-232 Port:** selectable baud rate

**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:** IP54 from front panel, IP30 from the rear.
**Dimensions:** 200 x 148 x 46mm (WxHxD)
**Panel Cut-out Dimensions:** 176 x 121 mm minimum.
**Weight:** 450 g (approx.)
**Case Material:** High Temperature, non-flammable ABS/PC
**Mounting:** Front panel mounted with 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 Compatibility:**
- UL 508 - Industrial Control Equipment

**CSA Compatibility:**
- CAN/CSA C22.2 No. 14:2005 – Industrial Control Equipment
Digital Monitoring

Event Log Display

Web Programming

RAINBOW PLUS PROGRAM

Scada

Waveform display & Harmonic analysis

Connection interfaces:
- USB
- IP (ethernet or GPRS)
- Serial port

Programming

RAINBOW SCADA PROGRAM

Complete Fleet Display on Map

Monitoring & Control Screen