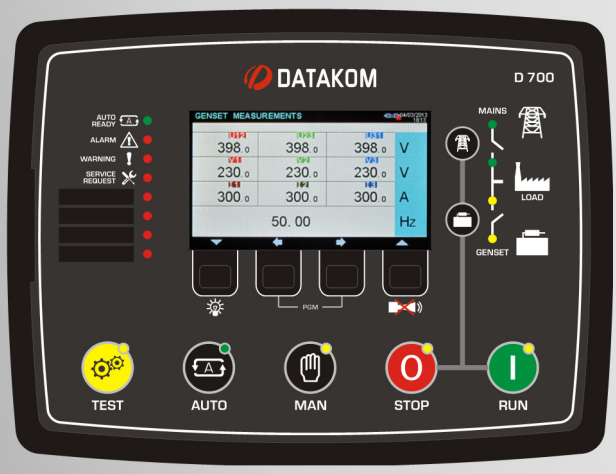
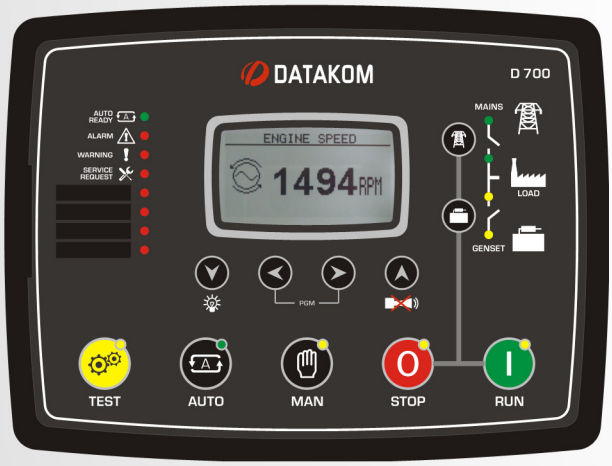
ONE SOLUTION FOR ALL GENSET APPLICATIONS

WEB BASED

D-700

B/W AND TFT VERSIONS





The D-700 is a next generation synchronizing genset controller capable of every communication and functionality.

Easy commissioning is achieved with automatic learning feature.

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 (2 years)
Modbus RTU through RS-485
Modbus TCP/IP
SNMP
USB Host
USB Device
RS-485 port, adjustable baud rate
RS-232
Micro SD card slot
J1939-CANBUS

FUNCTIONALITIES

Multi genset synch and load share
Mains synchronization
Single genset parallel with mains
AMF unit with uninterrupted transfer
ATS unit with uninterrupted transfer
Remote start controller
Manual start controller
Engine controller
Remote display & control unit

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 wire

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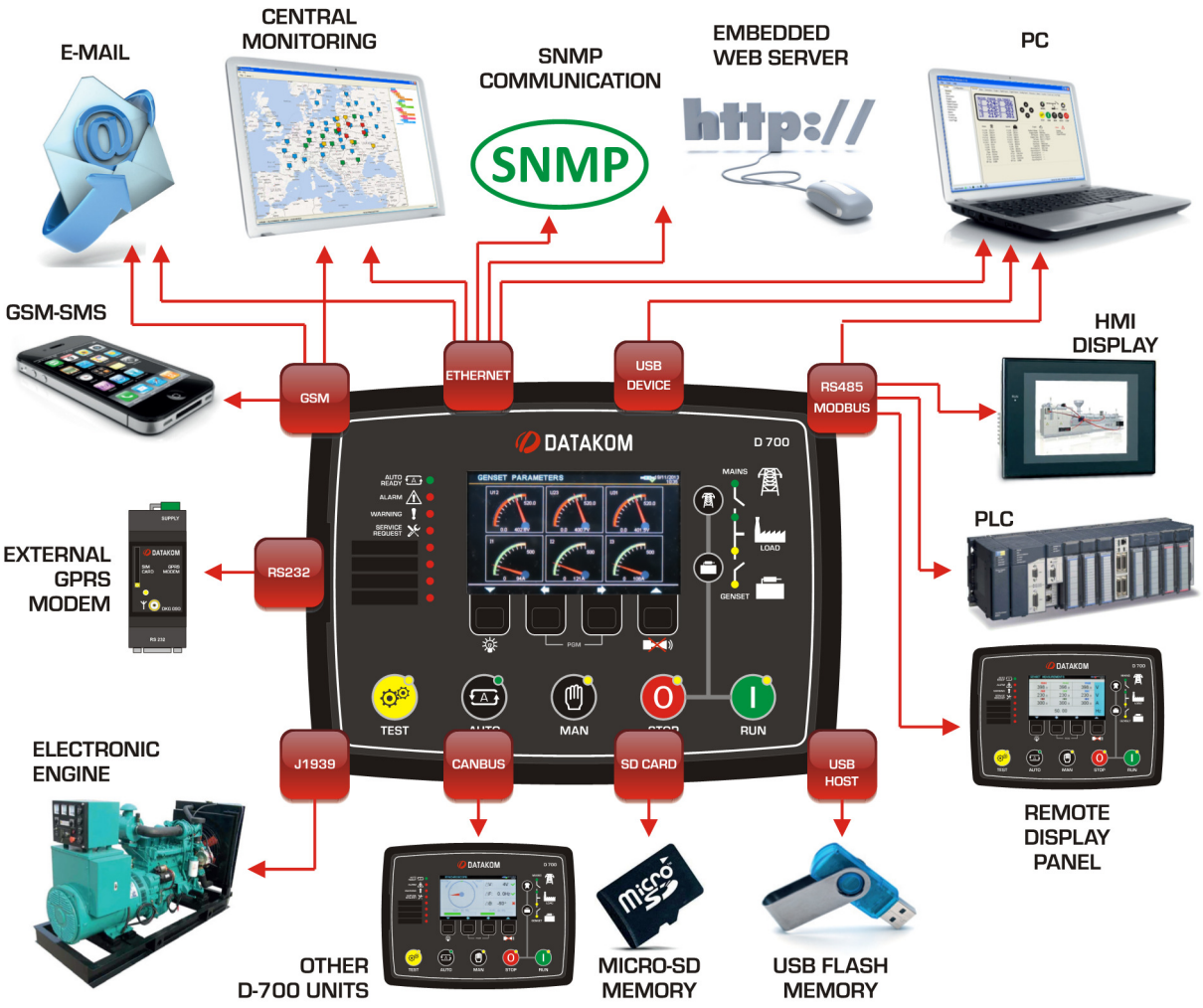
COMMUNICATIONS



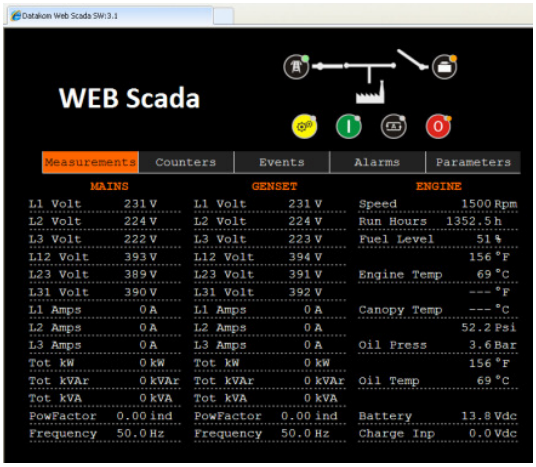
TECHNICAL SPECIFICATIONS

Alternator voltage: 0 to 300 V-AC (Ph-N)
Alternator frequency: 0-600 Hz.
Mains (Busbar) voltage: 0 to 300 V-AC (Ph-N)
Mains (Busbar) 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.
DigitalOutputs: 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.
GOV Control Output: 0-10V-DC
AVR Control Output: ±5V-DC, fully isolated
Charge Alternator Excitation: 2W.
Display Screen:
B/W versions: 2.9", 128x64 pixels
TFT versions: 4.3", 480x272 pixels
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
Data Link Port: Fully Isolated CANBUS
Operating temperature: -20℃ to 70℃ (-4 to +158 ℉)
Storage temperature: -40℃ to 80℃ (-40 to +176℉)
Maximum humidity: 95% non-condensing.
IP Protection: IP54 from front panel, IP30 from the rear.
Dimensions: 243 x 183 x 47mm (WxHxD)
Panel Cut-out Dimensions: 216 x 156 mm minimum.
Weight: 700 g /1.55lb (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 Compatibility:
UL 508 - Industrial Control Equipment
CSA Compatibility:
CAN/CSA C22.2 No. 14-2005 – Industrial Control Equipment

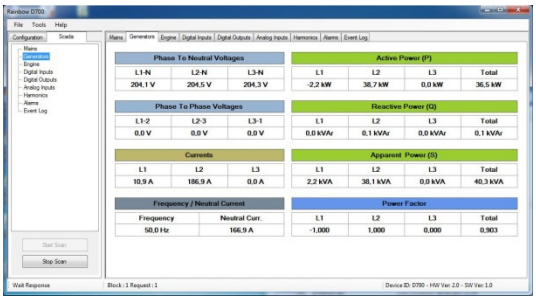
EMBEDDED WEB SERVER

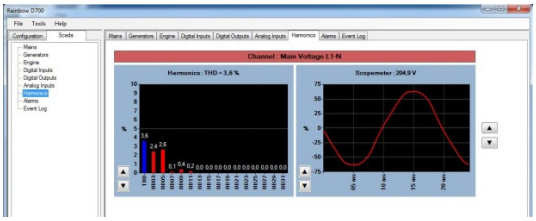
The embedded web server is available through the Ethernet port. It provides monitoring, remote control, event record display and parameter setup.



RAINBOW PLUS PROGRAM

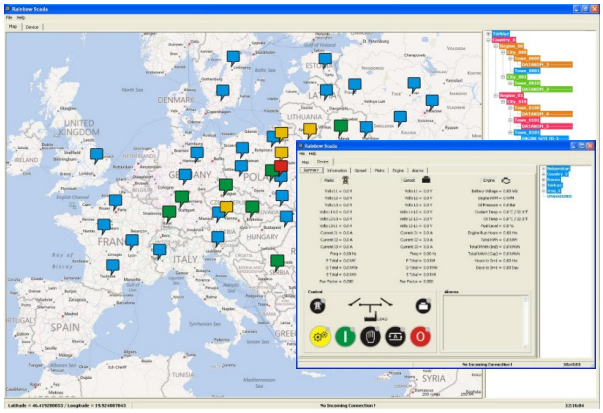
The Windows based Rainbow Plus program allows monitoring, remote control, event record display and parameter setup. It connects through USB, RS-485 and Internet.





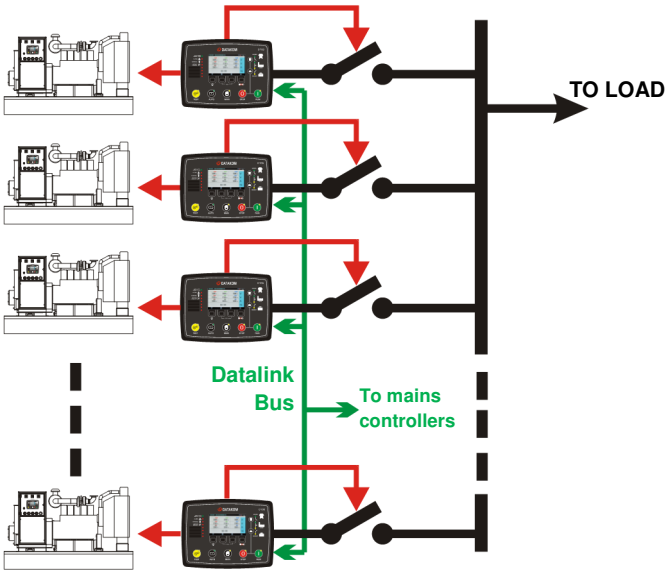
RAINBOW SCADA PROGRAM

The Rainbow Scada central monitoring program runs on server and supports up to 30.000 units on a single screen. It allows monitoring, control and remote parameter setup through internet.



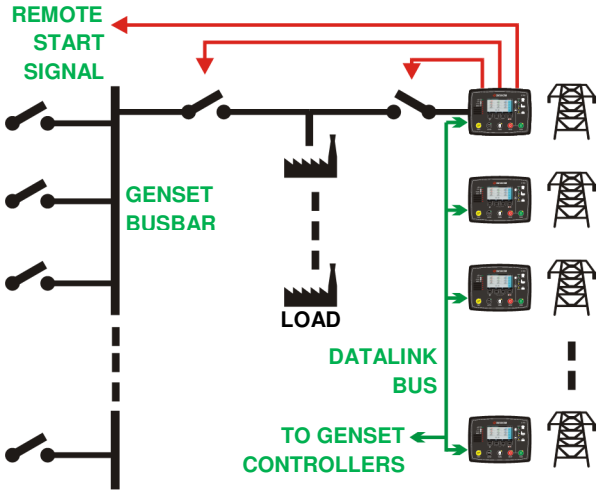
MULTI GENSET SYNCHRONIZATION

Up to 48 gensets may be paralleled on the same busbar. Smart load management is standard feature.



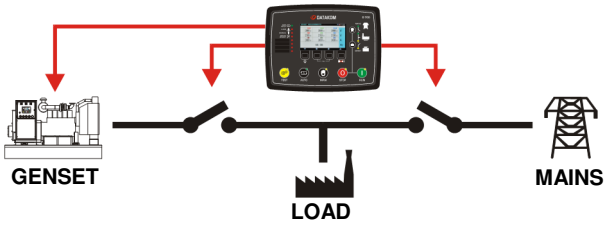
MAINS SYNCHRONIZATION

Up to 16 mains controller per system are supported . Mains controllers provide the REMOTE START signal and control synchronization with mains of the complete genset system.

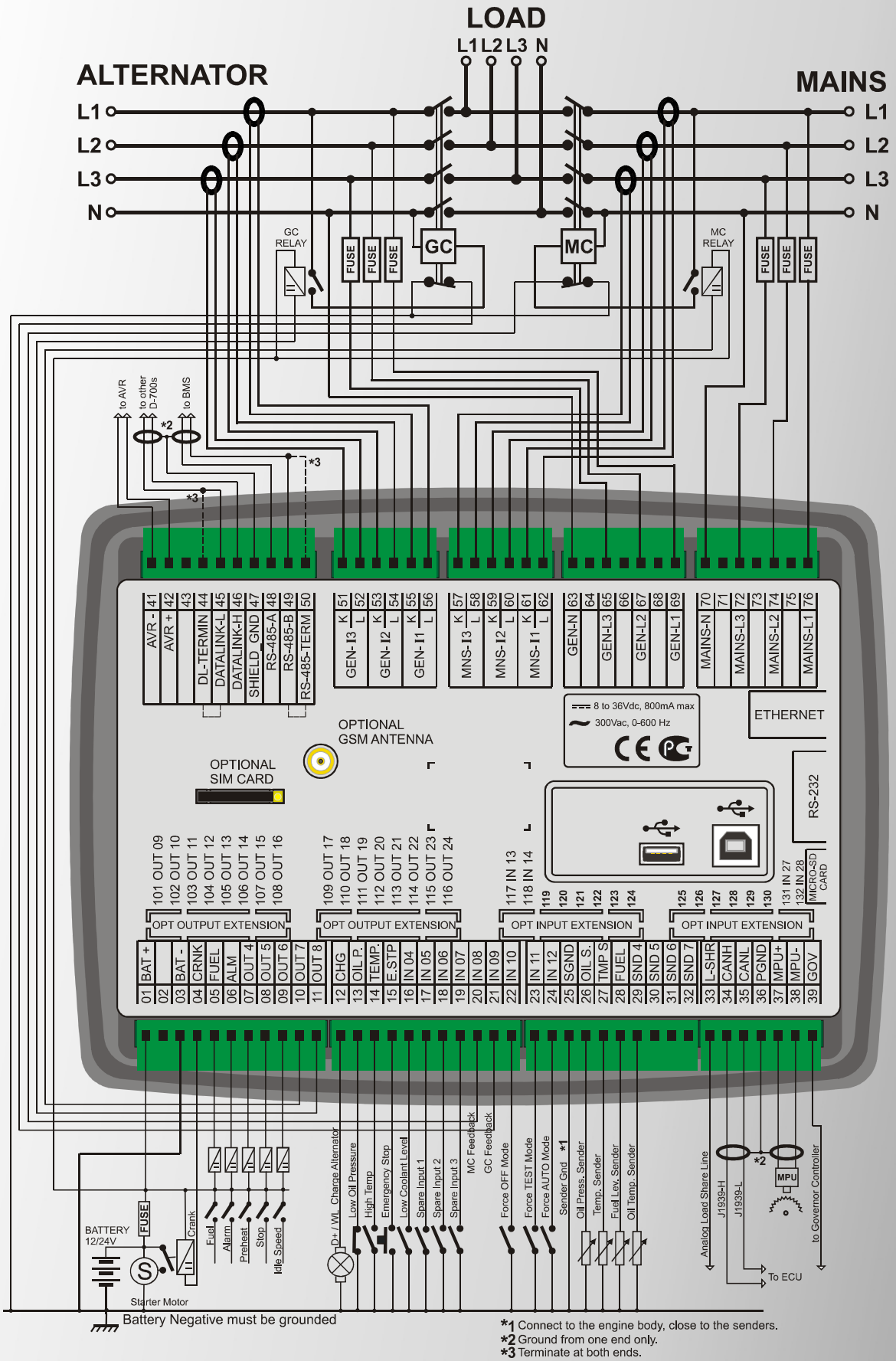


SINGLE GENSET PARALLEL WITH MAINS

The controller supports synchronization and parallel operation with mains. Supported features include soft transfer, peak lopping, peak shaving and power export.



TYPICAL CONNECTIONS



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