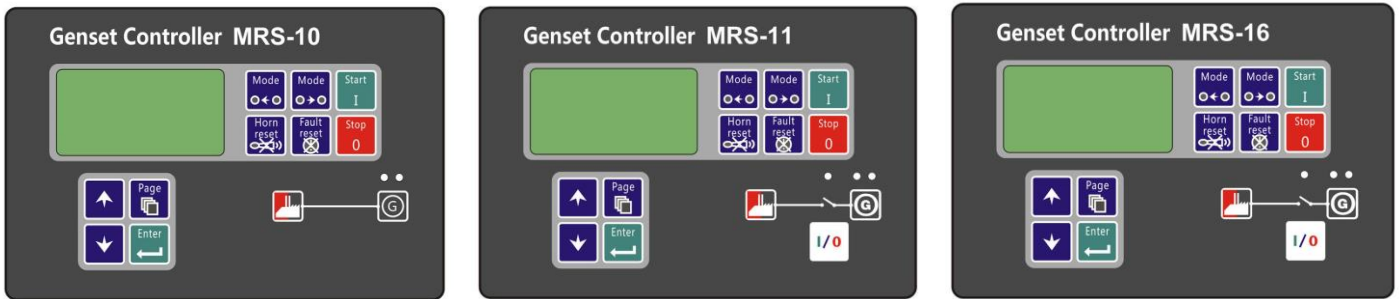# MRS-10 / MRS-11 / MRS-16

Auto and Remote Genset Controller

Description

MRS-10, MRS-11 and MRS-16 are new integrated controllers for single engine control in manual and remote start applications, featuring full gen-set monitoring and protection.
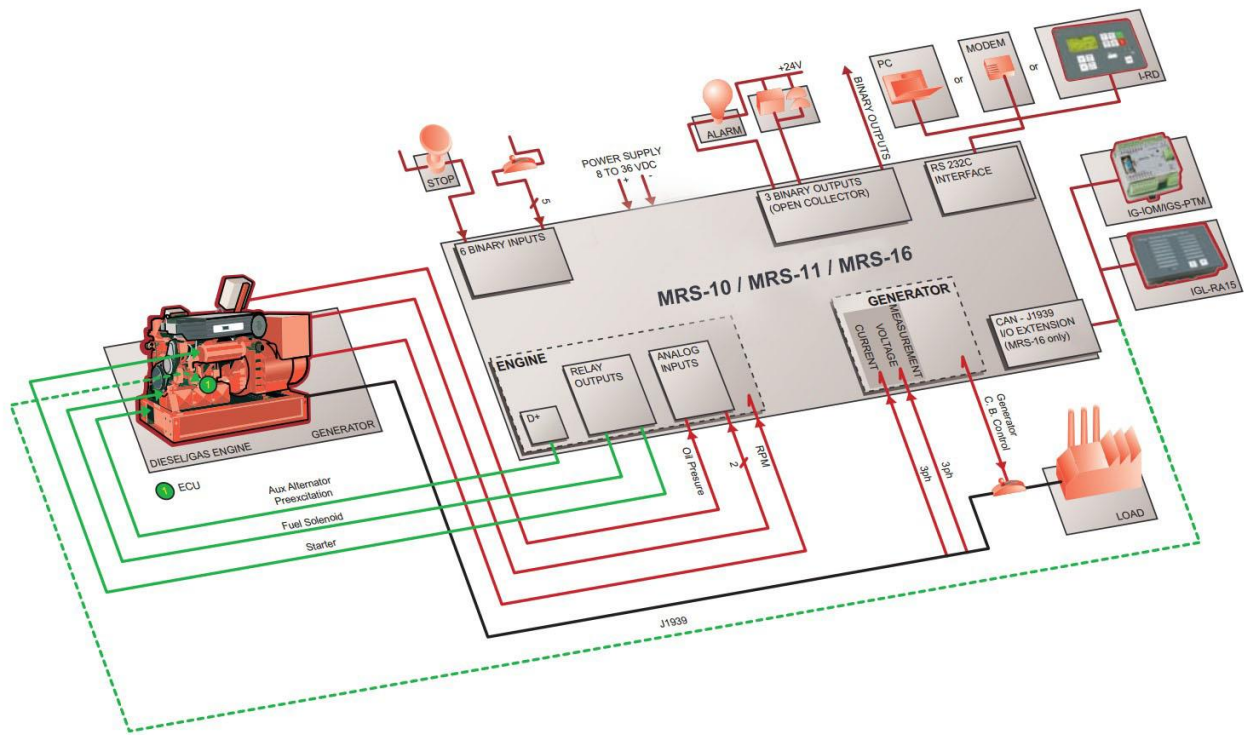
MRS-10, MRS-11 and MRS-16 controllers are equipped with a powerful graphic display. Icons, symbols and bar graphs for intuitive operation together with high functionality set new standards in gen-set control.

Benefits

➢ Less wiring and components Integrated solution Less engineering and programming
➢ Perfect price/performance ratio

Features

➢ Support of engines equipped with Electronic Control Unit – J1939 interface (MRS-16 only)
➢ Automatic or manual start/stop of the gen-set
➢ Push buttons for simple control, lamp test
➢ Graphic back-lit LCD display 128×64 pixels
➢ 3 LED indicators
➢ Parameters adjustable via keyboard or PC
➢ 3 phase Generator protections
  – Over-/under voltage
  – Over-/under frequency
  – Current/voltage asymmetry
  – Overcurrent/overload
➢ Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kVArh, kWh
➢ Selectable protections alarm/shutdown
➢ Analog oil pressure, water temperature, fuel level, battery voltage, engine speed (pick-up)
➢ Configurable programmable inputs and outputs
➢ Warm-up and cooling functions
➢ Generator C.B. control
➢ RS232 interface (AT-LINK CONV cable is necessary for IL-MRS 11)
➢ Modem communication support (IL-MRS 16 only)
➢ Dimensions 180×120 mm (front panel)
➢ Sealed to IP65

Functions

FUNCTIONS/CONTROLLERS	MRS-10	MRS-15	MRS-11	MRS-16	AMF-20	AMF-25
Binary inputs/outputs	6 / 6	6 / 6	6 / 6	6 / 6	7 / 7	7 / 7
Analog inputs	3	3	3	3	3	3
Pick-up	●	●	●	●	●	●
AMF function	–	–	–	–	●	●
Input configuration	●	●	●	●	●	●
Output configuration	●	●	●	●	●	●
Voltage measurement Gen. / Mains	3 ph / –	3 ph / –	3 ph / –	3 ph / –	3 ph / 3 ph	3 ph / 3 ph
Current measurement	3 ph	3 ph, IDMT overcurrent	3 ph	3 ph, IDMT overcurrent	3 ph	3 ph, IDMT overcurrent
kW/kWh measurement	● / –	● / ●	● / –	● / ●	● / –	● / ●
GCB/MCB control with feedback	–[2] / –	–[2] / –	●[1] / –	●[1] / –	● / ●	● / ●
Extension units (periph.)	–	IGL-RA15, IG-IOM, IGS-PTM	–	IGL-RA15, IG-IOM, IGS-PTM	–	IGL-RA15, IG-IOM, IGS-PTM
Communication interfaces	RS232[3]	RS232, CAN[4]	RS232[3]	RS232, CAN[4]	RS232[4]	RS232, CAN[4]
Modem support	–	●	–	●	–	●
Battery charging alternator circuit	●	●	●	●	●	●

Key: ● included / – excluded
1) Manual/Automatic GCB control, but without feedback
2) Automatic GCB control without feedback
3) AT-LINK CONV cable necessary

Legend: IG-IOM/IGS-PTM: I/O extension modules
IGL-RA15: Remote annunciator
I-RD: Remote display