

Automatic Gen-Set Controller with Transfer Switching & Load Sharing



Mains voltages and frequency measurements
Generator voltages and frequency measurements
Peak lopping (mains or genset)
Power export to mains
Mains de-coupling protection with R.O.C.O.F and vector shift methods
Manual voltage/frequency adjustment
Direct/Reverse Governor and AVR control
Auto adjust feature for Governor and AVR
Volts, frequency and phase matching
Synchroscope display
Logic Controller functionality for PLC



► Pre-Alarm

Engine temperature
Oil pressure
Fuel level
Over / Under voltage
Over / Under frequency
Over / Under speed

► Warning & Electrical trip

Earth fault
Over current
Short circuit
Mains rocof
Mains vector shift

► Alarm

Generator breaker not opened
Generator breaker not closed
Mains breaker not opened
Mains breaker not closed

► Controls

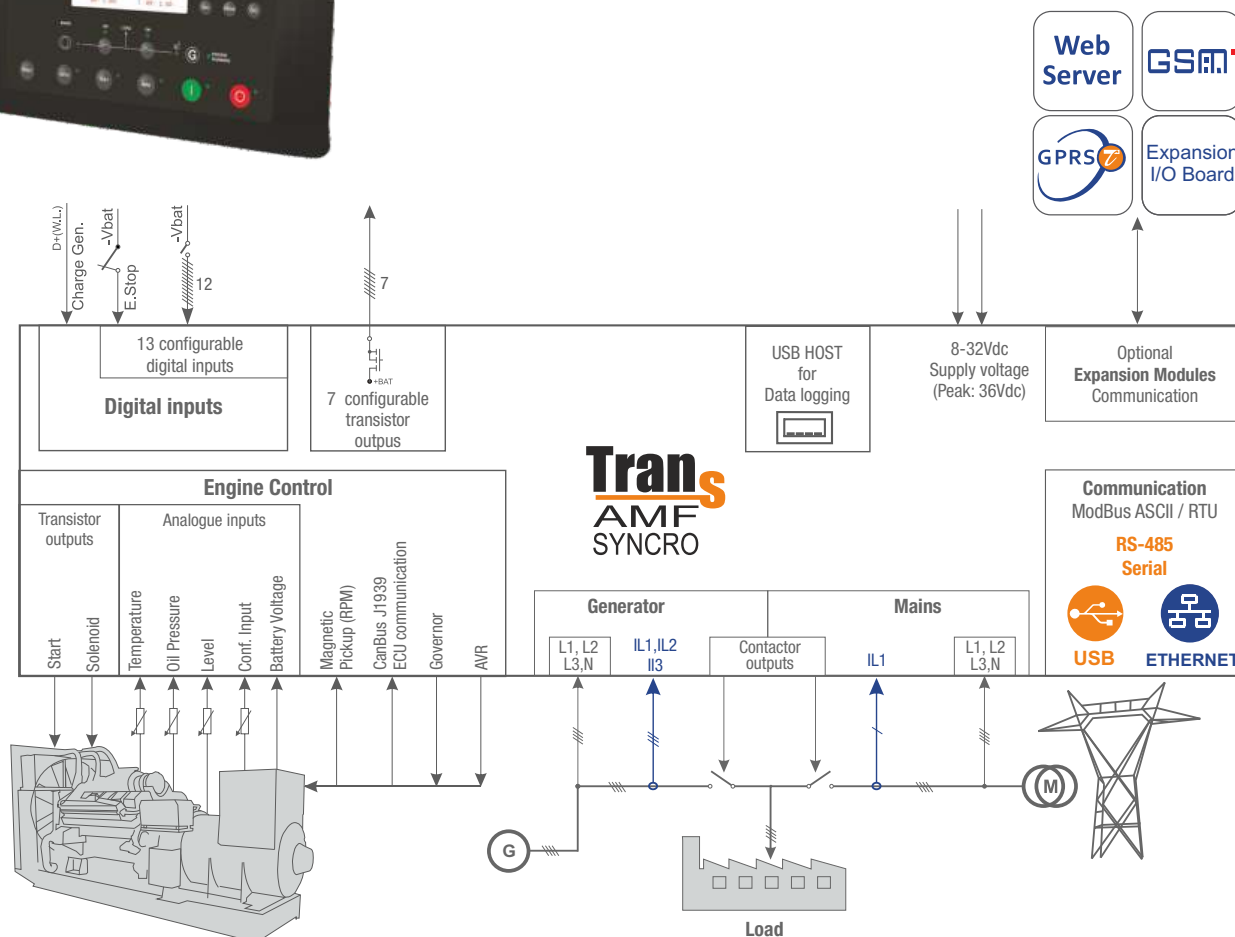
Fuel and Stop solenoid
ECU power and stop
Starter motor
Automatic generator start
Preheat
External alarm horn
Engine cooling
Idle mode
Mains supply
Load transfer
Load sharing

► Fail Monitoring

Mains failure
Emergency stop
Failed to start
Low oil pressure
High temperature
Speed failure
Voltage failure
Charging fail
Shutdown
Warning

► Error

Synchronising
Over / Under speed
Speed loss
Earth fault
Fuel level
Battery low
Battery high
Maintenance
Over current
Short circuit
Engine stop
CanBus
Charge alternator



Dimensions	: 276 mm x 189 mm x 45 mm. (including connectors). Plastic housing for panel mounting.
Panel Cut-Out	: 223mm x 162mm.
Protection	: IP65 at front panel.
Weight	: Approximately 0,82 Kg.
Environmental Rating	: Standard, indoor at an altitude of less then 2000 meters with non-condensing humidity.
Operating/Storage Temperature	: -20°C to +70°C / -30°C to +80°C
Operating/Storage Humidity	: 95% max. (non-condensing)
DC Battery Supply Voltage	: 8 to 32 Vdc (Peak: 36Vdc) Max. operating current is 860 mA.
CT Secondary	: 5A.
Sender Measurement	: 0 to 1300 ohm, accuracy: 1 % FS, resolution: 1 ohm.
Communication Interface	: USB programming and communication port, Ethernet, RS485.

Order Information

Trans-AMF.SYNCRO

Synchronising & Automatic Mains Failure Unit for Generators with J1939 ECU communication