

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

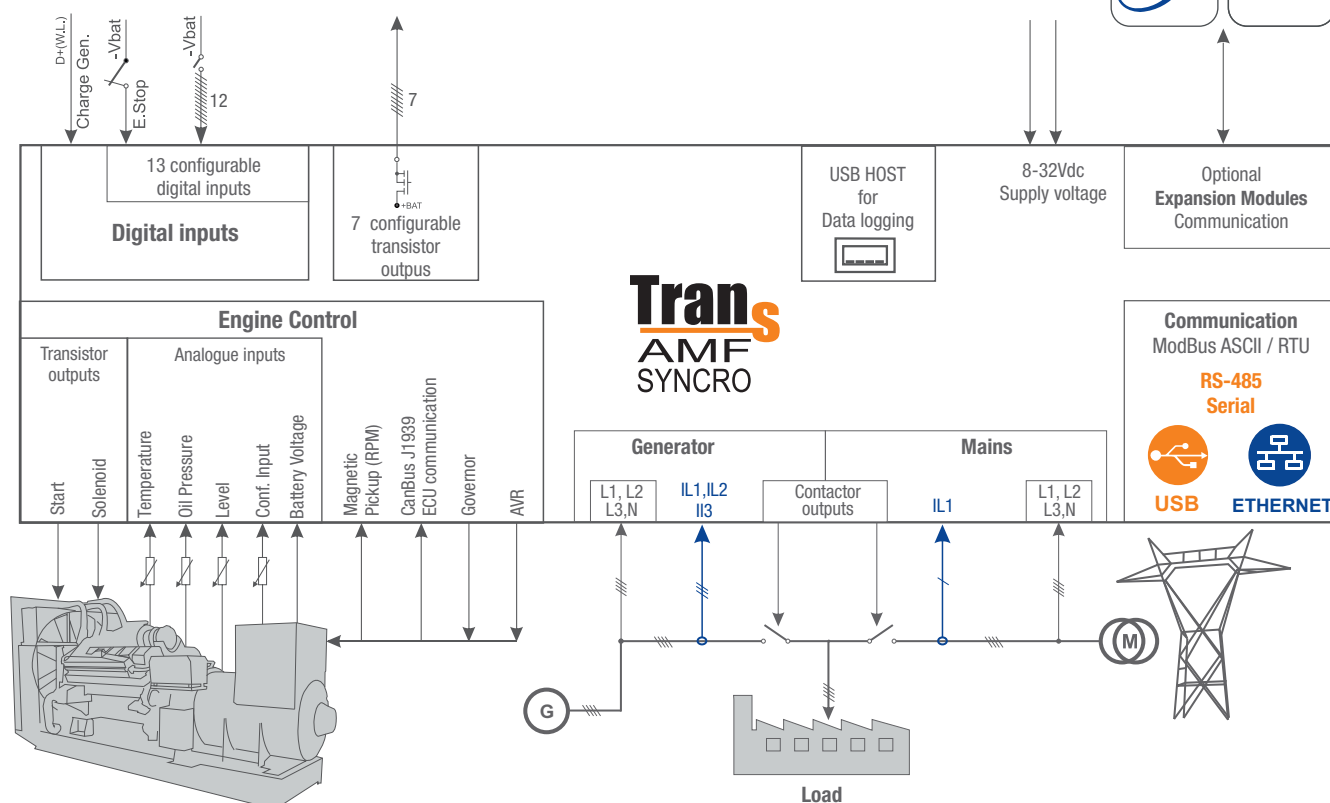
Fuel and Stop solenoid
 ECU power and stop
 Starter motor
 Automatic generator start
 Preheat
 External alarm horn
 Engine cooling
 Idle mode
 Mains supply
 Load transfer
 Load sharing

► 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

Panel Cut-Out

Protection

Weight

Environmental rating

: 276 mm x 189 mm x 45 mm. (including connectors). Plastic housing for panel mounting.

: 223mm x 162mm.

: IP65 at front panel.

: Approximately 0,82 Kg.

: Standard, indoor at an altitude of less then 2000 meters with non-condensing humidity.

Operating/Storage Temperature

DC Battery Supply Voltage

CT secondary

Sender Measurement

Communication interface

: -20°C to +70°C / -30°C to +80°C

: 8 to 32 V dc. Max. operating current is 860 mA.

: 5A.

: 0 to 1300 ohm, accuracy: 1 % FS, resolution: 1 ohm.

: USB programming and communication port, Ethernet, RS485.

Order Information

Trans-AMF.SYNCRO

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