PRODUCT CATALOGUE

Generator Set Controllers Protection, Control and Metering



















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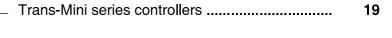
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Automatic Gen-Set Controllers with Transfer Switching



CanBus J1939 ECU communication

Parameter configuration via USB port of your notebook

Authorised access, secure communication

Translate LCD text for your language

Log last 50 events & alarm information with measured values

Statistics records

Generator phase sequence control

Remote Start/Stop, Speed and Idle mode control via J1939

Power factor measurement for 3 phases

4 resistive sender inputs for Level, Temperature, Oil Pressure and Spare

Selectable Resistive sender types; Pt-100, VDO, US, GM, Ford, Datcon, etc..

Speed sensing from alternator voltage or magnetic pickup (Trans-AMF.MPU)

3 phase Load current and earth current measurement

Configurable 10 inputs and 4 outputs

ECU power, ECU stop, Stop or Fuel solenoid selection

Programmable weekly working permit calendar

Maintenance warning, Red (Shutdown) and Yellow (Warning) alarm lights

Navigation and Shortcut buttons for easy use

Exercise at programmed time intervals

Load Test selection

Automatic transfer switching control and engine control

Compatible to Diesel or Gas generators

Auto, Manual and Test modes

Active, Reactive, Apparent power measurement

Adjustable Start, Load and Stop timers

SPN, FMI and OC values reading from engines via J1939

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

Alarm

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

Controls

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

Fail Monitoring

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

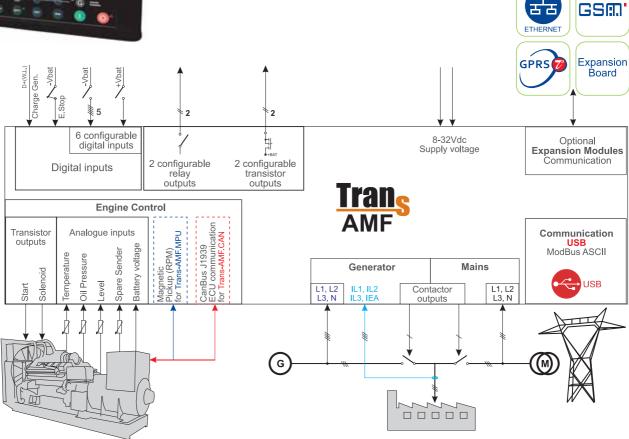
Erro

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









Dimensions : 229mm x 152mm x 41mm

Panel Cut-Out : 182mm x 135mm

Protection : IP65 at front panel

Weight : Approximately 0,53Kg

Operating temperature : -20°C to +70°C

DC battery supply voltage : 8 to 32Vdc, max. operating current is 360mA

CT secondary : 5A

Sender Measurement : 0 to 1300 ohm, accuracy: 1%FS, resolution: 1 ohm

Order Information	
Trans-AMF.CAN	Automatic Gen-Set controller with transfer switching, LCD display, J1939 ECU communication
Trans-AMF.MPU	Automatic Gen-Set controller with transfer switching, LCD display, speed sensing from magnetic pickup





Automatic Gen-Set Controllers



CanBus J1939 ECU communication

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Authorised access, secure communication

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

Warning & Electrical trip

Earth fault Over current Short circuit

Alarm

Generator breaker not opened Generator 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

Fail Monitoring

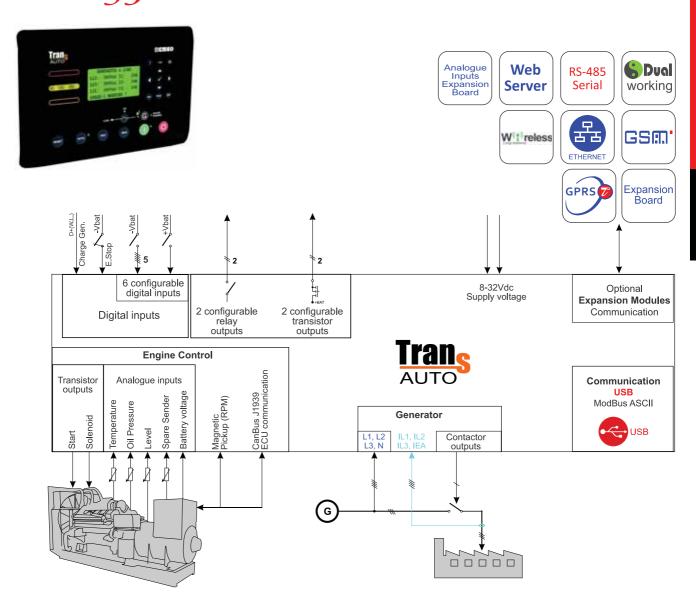
Emergency stop
Multiple engage fail
Failed to start
Low oil pressure
High temperature
Speed failure
Voltage
Charging fail
Shutdown
Warning

Erro

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







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CT secondary : 5A

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Order Information		
Trans-AUTO	Automatic Gen-Set controller, LCD display, J1939 ECU communication	





Automatic Transfer Switching Controllers



Parameter configuration via USB port of your notebook

Authorised access, secure communication

Translate LCD text to your language

Log last 50 events & alarm information with measured values

Statistics records

Generator phase sequence control

Power factor measurement for 3 phases

3 phase Load current and earth current measurement

Configurable 6 inputs and 4 outputs

Programmable weekly working permit calendar

Maintenance warning, Red (Shutdown) and Yellow (Warning) alarm lights

Navigation and Shortcut buttons for easy use

Exercise at programmed time intervals

Load Test selection

Automatic transfer switching control

Auto, Manual and Test modes

Active, Reactive, Apparent power measurement

Pre-Alarm

Over / Under voltage Over / Under frequency Over / Under speed

Warning & Electrical trip

Earth fault Over current Short circuit

Alarm

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

Controls

Automatic generator start Load transfer to mains External alarm horn

Fail Monitoring

Emergency stop Speed failure Voltage Shutdown Warning

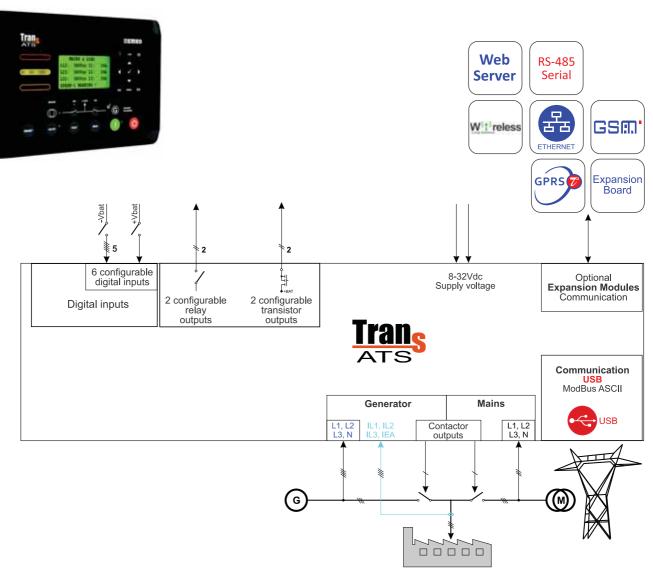
Erro

Over / Under speed Speed loss Earth fault Battery low Battery high Maintenance Over current Short circuit Engine stop CanBus









Dimensions : 229mm x 152mm x 41mm

Panel Cut-Out : 182mm x 135mm

Protection : IP65 at front panel

Weight : Approximately 0,53Kg

Operating temperature : -20°C to +70°C

DC battery supply voltage : 8 to 32Vdc, max. operating current is 360mA

CT secondary : 5A

Order Information	
Trans-ATS	Automatic transfer switching controller, LCD display,



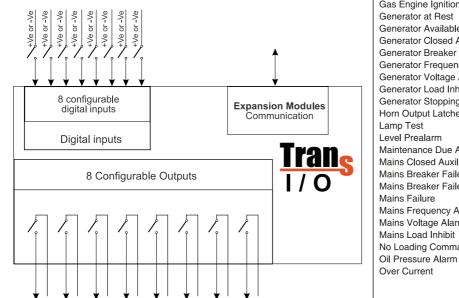


Trans Series Expansion I/O Module

> Expansion Board



Easy plugging to all Trans series controllers
Configurable 8 inputs and 8 outputs
Each Input and Output configurable by user or select from list
Selectable hardware type of inputs by +Ve or -Ve
Selectable NO or NC input polarity
Selectable NO or NC output polarity
Adjustable input active delay
Can be used together with remote monitoring modules



Configurable output selections

Audible Alarm Auto start inhibit Auxiliary Mains Failure Battery High or Low Voltage Calling for scheduled run Charge alternator failure Common Alarms Coolant Temperature Alarm Digital and Expansion Inputs Active Earth Fault Electric Cooling Fan control Emergency Stop Fail to Start, Stop Fuel relay energised Gas Engine Ignition Output Generator at Rest Generator Available Generator Closed Auxiliary Generator Breaker Failed Generator Frequency Alarm Generator Voltage Alarm Generator Load Inhibit Generator Stopping Horn Output Latched or Pulsed Lamp Test Level Prealarm Maintenance Due Alarm Mains Closed Auxiliary Mains Breaker Failed to Close Mains Breaker Failed to Open Mains Failure Mains Frequency Alarm Mains Voltage Alarm Mains Load Inhibit No Loading Command

Configurable output selections

Over or Under Speed Alarm Panel Lock PreHeat Remote Start Present Remote Stop Delay Short Circuit Start Relay Energised Starting Alarm System in Auto, Manual, Stop, Manual or Test Mode ECU Power or Stop Smoke Limiting Low Temperature Generator and Mains Breakers Control Oil Temperature Alarm Fuel Pump Control Air Flap Control or User Configurable

Configurable input selections

Auxiliary Mains Fail Simulate Lamp Test Button Simulate Horn Reset Button Simulate Alarm Reset Button Simulate Auto Button Simulate Test Button Simulate Manual Button Simulate Start Button Simulate Stop Button Generator Closed Auxiliary Generator Load Inhibit Mains Closed Auxiliary Mains Load Inhibit Auto Restore Inhibit Auto Start Inhibit Panel Lock Scheduled Runs Inhibited Transfer To Generator/Open Mains Transfer To Mains/Open Generator or User Configurable

Order Information

Trans-I/O

Expansion Input / Output Module for Trans Series Controller







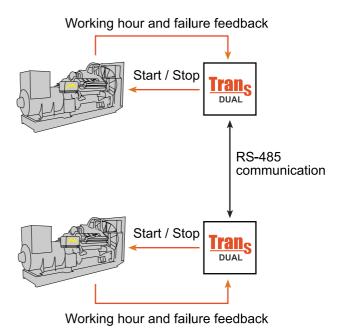


Trans Series Failure and time interval dual working



Easy plugging to Trans-AMF and Trans-Auto controllers
Dual GenSet working by time interval
Priority selection
When the failure situation, automatically start to another GenSet
Equal aging by working hours
Definable time interval period
Load transfer without power interruption





Order Information	
Trans-Dual	Failure and time interval dual working Module



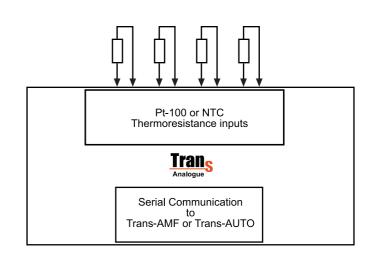


Trans Series
Analogue Inputs
Expansion Module





Easy plugging to Trans-AMF & Trans-AUTO
4 x Pt-100 (2 wires) thermoresistance inputs
Alternator winding temperature measurement
Ambient and exhoust temperature measurement
Fuel tank or engine block temperature control
Visualisation and control measured values by Trans Series controllers
and Gen-Agent SCADA software
Working with all communication modules



Order Information	
Trans-AnalogueRTD	Analogue inputs and alarm expansion modules 4x Pt-100 inputs (2 wires)
Trans-AnalogueNTC	Analogue inputs and alarm expansion modules 4x NTC-10K inputs









Trans Series GSM Communication Module

The status of your generator is only a text message away :)

Easy plugging to all Trans Series controllers

Two-way SMS communication (GenSet to mobile)

Controls the generator and monitors status information of the generator by SMS

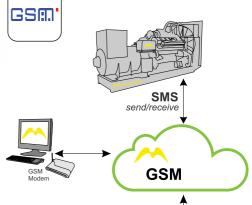
Remote control via GSM

Sends alarm informations pre-defined GSM numbers

User may control the device, CLEAR alarms, RESET,

Change MODE's, STOP, START, access the PARAMETER's of device,

Change the parameters and enquire information about generator's active status



SMS send/receive



Notification of alarm status by SMS



Enquire status by SMS



Receive feed-back message for status



Send command by SMS



Acknowledgement message for command sent



Enquire for parameter values by SMS



Feed-back message for parameter values read



Change parameter values by SMS



Enquire for active measured values



Feed-back message for active measured values

Order Information

Trans-Messenger

Remote Control & Visualisation Module, communication by GSM and two way SMS





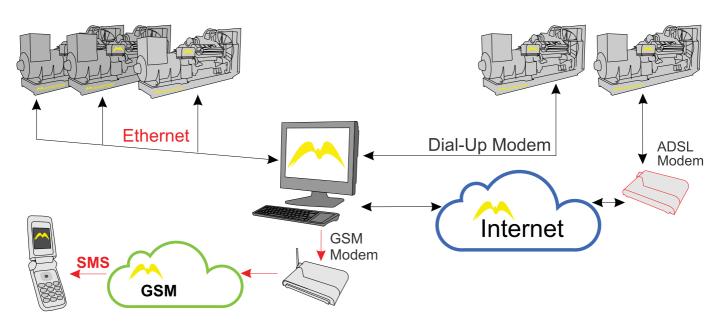
Trans Series
Ethernet / Dial-up
Communication Module





Easy plugging to all Trans Series controllers
Ethernet and Dial Up communication
Call-Back selection by Ethernet and Dial Up
Maintenance management of multiple Gen-Sets from a central computer
Alarm observation and archive
Easy adjustable IP adress, Gateway, DNS
DHCP supported
ModBus over TCP/IP communication protocol
10/100 Base T ethernet communication





Order Information

Trans-Messenger.PRO

Remote Control & Visualisation Module, communication by Ethernet & Dialup with Trans-GenAgent SCADA software







Trans Series GPRS Communication Module



Remote **Control & Visualisation** for Multiple Gen-Sets

Easy plugging to all Trans Series controllers **GPRS** communication

Call-Back selection by GPRS

Maintenance management of multiple Gen-Sets from a central computer

Alarm observation and archive

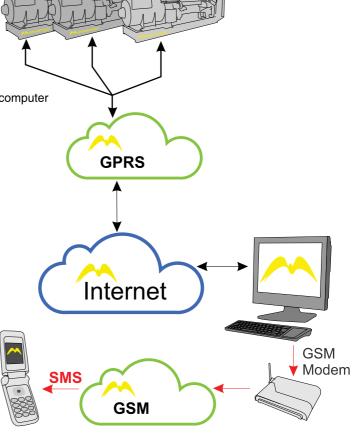
DHCP supported

ModBus over TCP/IP communication protocol

2G, 2G5, 3G, EDGE supported

Suitable for telecommunication projects





Order Information

Trans-Messenger.GP

Remote Control & Visualisation Module communicate by GPRS with Trans-GenAgent SCADA software



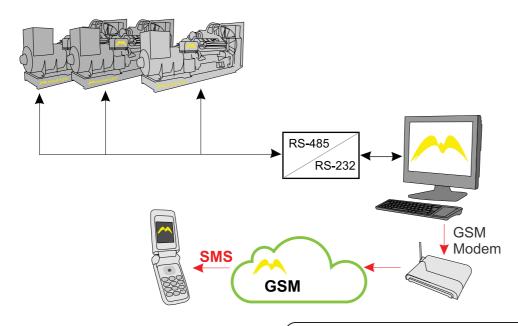


Trans Series
RS-485 Serial
Communication Module

RS-485 Serial Remote Control & Visualisation for Multiple Gen-Sets

Easy plugging to all Trans Series controllers
RS-485 serial ModBus communication
Call-Back selection by Serial network
Maintenance management of multiple Gen-Sets from a central computer
Alarm observation and archive
Easy adjustable ID adress
Max. 247 device can be add on serial network
500V galvanic insulation





Order Information

Trans-Messenger.485

Remote Control & Visualisation Module, communication by RS-485 with Trans-GenAgent SCADA software





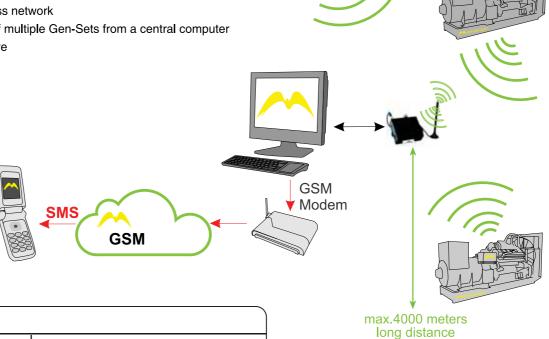


Trans Series
Wireless Radio Frequency
Communication Module

W^[1]reless

Remote
Control & Visualisation
for Multiple Gen-Sets

Easy plugging to all Trans Series controllers
4000 meter long distance wireless communication
868 MHz ISM band RF communication
38,4 kbps baud rate
500 mW output power
Communication licence free
Call back selection by wireless network
Maintenance management of multiple Gen-Sets from a central computer
Alarm observation and archive



Order Information

Trans-Messenger.RF

Remote Control & Visualisation Module communicate by 868 MHz RF with Trans-GenAgent SCADA software





Gen-Agent

Remote Visualisation & Control SCADA Software











Automatic device recognition for Trans series controllers
Remote control & visualisation for multiple Gen-Sets
Communicate by Dial Up, Ethernet, Internet, GPRS, GSM, RF and Serial
USB communication for single Gen-Set remote control & visualisation
"Auto Call" for 3 times / daily

Alarm and event Archive

Configurable and recordable new language by user

Authorised access, secure communication

Windows XP, Vista, 7 compatible

File Window Program Observation Cycrotic Faceworks: Stylescent Faceworks: Adjustment Control Settings Modern Miles COMED Compart Stree Manage 172 (Ver.) Manis Virlage 173 (Ver.) Manis Virlage 174 (Ver.) Manis Virlage 175 (Ver.) Manis Virlage 175



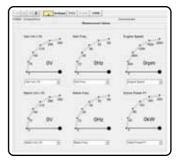
Observation

Measurement values
J 1939 ECU values
Power and Energy values
Event Logs
Analogue View
Archive database
Outputs status
Alarm status
Online device status
Red or Yellow Alarms
Maintenance Alarm

Control

Modes changing
Engine Start / Stop
Breakers control
Operator parameters changing
Technician parameters changing
Device measurement values adjusting







Order Information

Trans-GenAgent

Remote Control & Visualisation SCADA software



energy





Embedded Web Server Communication Module

Trans Series

Web Server

Ethernet or GPRS communication

Built-in http web pages

Compatible to Trans-Cloud remote Gen-Set Management System

Remote Genset control by Smart phones and PC

E-mail sending when the alarm situation

4Gb SD memory

User definable data logging period

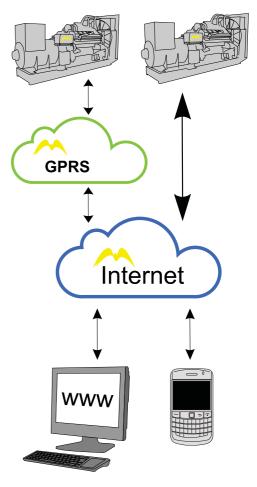
Alarm observation and archive

DHCP supported

2G, 2G5, 3G, EDGE supported



Order Information	
Trans-Web	Remote Control & Visualisation Module communicate by Internet through Ethernet
Trans-Web.GP	Remote Control & Visualisation Module communicate by Internet through GPRS





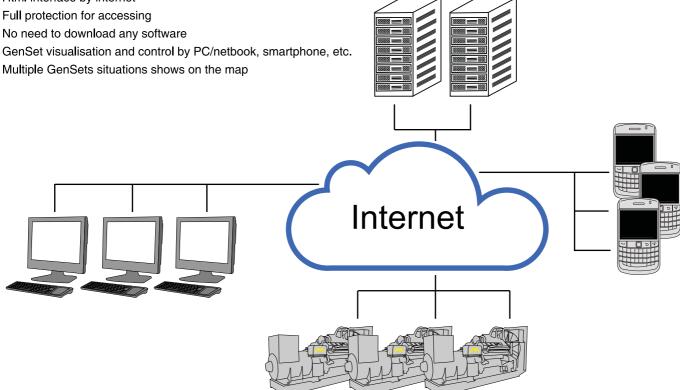


Remote GenSet Management System

Cloud Network



Easy remote access to GenSet all over the world
Unlimited users for remote access to GenSet
Server - client based solution
Multiple GenSets visualisation
Measured values and statistic analysis
Email and SMS notification when the alarm stuation
Html interface by internet
Full protection for accessing
No need to download any software
GenSet visualisation and control by PC/netbook, small





Comparison Table

	Trans-Pump	Trans- Mini.Auto	Trans- Mini.Auto+	Trans-Auto	Trans- Mini.AMF	Trans-AMF	Trans- Mini.ATS	Trans-ATS
Dimensions	111 x 81mm	111 x 81mm	111 x 81mm	229 x 152mm	111 x 81mm	229 x 152mm	111 x 81mm	229 x 152mm
Mains Voltage	N/A	N/A	N/A	N/A	3Ph	3Ph	3Ph	3Ph
Gen Voltage	N/A	1Ph	3Ph	3Ph	1Ph	3Ph	1Ph	3Ph
Load Current	N/A	1Ph	1Ph	3Ph	1Ph	3Ph	-	3Ph
Mag.PickUp	+	/+	/+	+	-	+	-	-
CanBus J-1939	-	/+	/+	+	/+	+	-	-
Configurable Inputs	3	3	3	7	3	7	6	7
Remote Start Input	conf	conf	conf	conf	conf	conf	-	-
Oil Pressure Input	Sender or Alarm	Sender or Alarm	Sender or Alarm	Sender or Alarm	Sender or Alarm	Sender or Alarm	N/A	N/A
Temperature Input	Sender or Alarm	Sender or Alarm	Sender or Alarm	Sender or Alarm	Sender or Alarm	Sender or Alarm	N/A	N/A
Aux. Sender Input	1	1	1	2	1	2	-	-
Charg.Alt.Input	+	+	+	+	+	+	N/A	N/A
Configure Outputs	2	3	3	4	4	4	5	4
Crank output	1	1	1	1	1	1	N/A	N/A
Solenoid output	1	1	1	1	1	1	N/A	N/A
MCB out	N/A	N/A	N/A	N/A	+	+	+	+
GCB out	N/A	conf	+	+	+	+	+	+
Communication	RS-232	RS-232	RS-232	USB	RS-232	USB	RS-232	USB
I/O Expansion Module	-	-	-	/+	-	/+	-	/+
Remote monitoring Modules	N/A	N/A	N/A	GSM Ethernet Dial-Up GPRS RF RS-485 Web server	N/A	GSM Ethernet Dial-Up GPRS RF RS-485 Web server	N/A	GSM Ethernet Dial-Up GPRS RF RS-485 Web server





Auto Start Moto-Pump Protection & Controllers



Parameter configuration via RS-232 serial communication Log last 50 events & alarm information with measured values Statistics records

3 resistive sender inputs for Temperature, Oil Pressure and Fuel Level Selectable Resistive sender types; Pt-100, VDO, US, GM, Ford, Datcon, etc..

Speed sensing from magnetic pickup

Configurable 3 inputs and 2 outputs

Stop or Fuel solenoid selection

Engine control

Compatible to Diesel or Gas engines

Remote Start

Pre-Alarm

Engine temperature Oil pressure Over / Under speed

Controls

Fuel and Stop solenoid Starter motor Remote Start / Stop Preheat External alarm horn

Fail Monitoring

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

Error

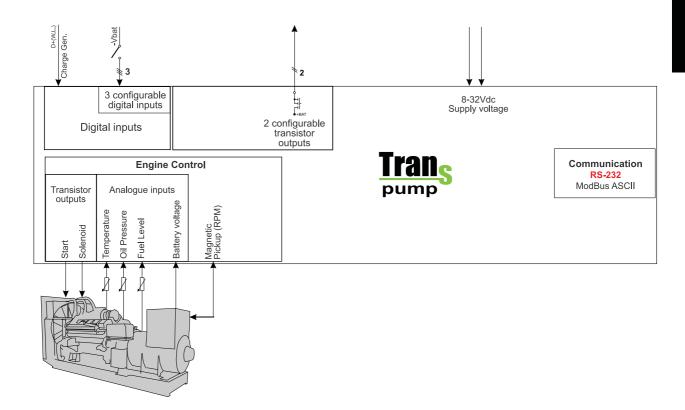
Over / Under speed Speed loss Battery low Battery high Maintenance Engine stop Charge alternator











Dimensions : 111mm x 81mm x 61mm

Panel Cut-Out : 81mm x 70mm

Protection : IP65 at front panel

Weight : Approximately 0,3Kg

Operating temperature : -20°C to +70°C

DC battery supply voltage : 8 to 32Vdc, max. operating current is 360mA

Sender Measurement : 0 to 1300 ohm, accuracy: 1%FS, resolution: 1 ohm

Order Information	
Trans-Pump	Diesel and Gas engine Auto Start controller for pump applications



energy



Automatic Gen-Set Controllers



Parameter configuration via RS-232 serial communication

Log last 50 events & alarm information with measured values

Statistics records

Remote Start/Stop, Speed and Idle mode control via J1939

Power factor measurement for 1 phase

3 resistive sender inputs for Temperature, Oil Pressure and Fuel Level

Selectable Resistive sender types; Pt-100, VDO, US, GM, Ford, Datcon, etc...

Speed sensing from alternator voltage, magnetic pickup or CanBus J1939

1 phase alternator voltage measurement

1 phase Load current measurement

Configurable 3 inputs and 3 outputs

ECU power, ECU stop, Stop or Fuel solenoid selection

Engine control

Compatible to Diesel or Gas generators

Power measurement

Adjustable Start, Load and Stop timers

SPN, FMI and OC values reading from engines via J1939

Pre-Alarm

Engine temperature
Oil pressure

Over / Under voltage

Over / Under frequency

Over / Under nequent

Warning & Electrical trip Over current

Short circuit

Controls

Fuel and Stop solenoid ECU power and stop Starter motor Automatic generator start

Preheat

External alarm horn

Engine cooling
Idle mode

Fail Monitoring

Emergency stop
Multiple engage fail
Failed to start
Low oil pressure
High temperature
Speed failure
Voltage
Charging fail

Charging fail Shutdown Warning

Erro

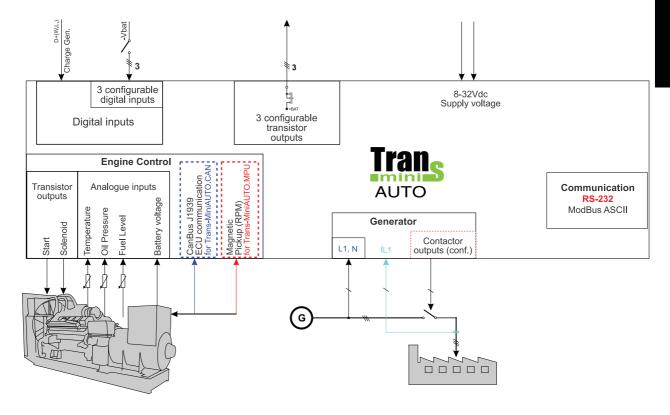
Over / Under speed Speed loss Battery low Battery high Maintenance Over current Short circuit Engine stop CanBus Charge alternator











Dimensions : 111mm x 81mm x 61mm

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Protection : IP65 at front panel

Weight : Approximately 0,3Kg

Operating temperature : -20°C to +70°C

DC battery supply voltage : 8 to 32Vdc, max. operating current is 360mA

CT secondary : 5A

Sender Measurement : 0 to 1300 ohm, accuracy: 1%FS, resolution: 1 ohm

Order Information						
Trans-MiniAUTO	Auto Start GenSet controller, LCD display					
Trans-MiniAUTO.CAN	Auto Start GenSet controller, CanBus J1939 ECU communication					
Trans-MiniAUTO.MPU	Auto Start GenSet controller, speed sensing from Magnetic Pickup					



energy







CanBus J1939 ECU communication

Parameter configuration via RS-232 serial communication

Log last 50 events & alarm information with measured values

Statistics records

Remote Start/Stop, Speed and Idle mode control via J1939

Power factor measurement for 1 phase

3 resistive sender inputs for Temperature, Oil Pressure and Fuel Level

Selectable Resistive sender types; Pt-100, VDO, US, GM, Ford, Datcon, etc..

Speed sensing from alternator voltage, magnetic pickup or CanBus J1939

3 phase alternator voltage measurement

1 phase Load current measurement

Configurable 3 inputs and 3 outputs

ECU power, ECU stop, Stop or Fuel solenoid selection

Engine control

Compatible to Diesel or Gas generators

Power measurement

Adjustable Start, Load and Stop timers

SPN, FMI and OC values reading from engines via J1939

Pre-Alarm

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

Warning & Electrical trip

Over current Short circuit

Controls

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

Fail Monitoring

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

Error

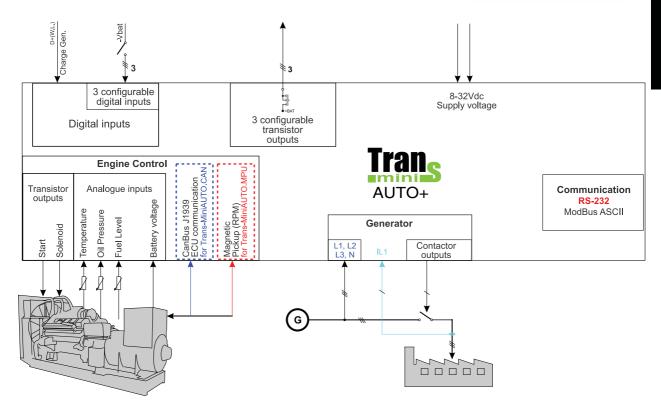
Over / Under speed Speed loss Battery low Battery high Maintenance Over current Short circuit Engine stop CanBus Charge alternator











Dimensions : 111mm x 81mm x 61mm

Panel Cut-Out : 81mm x 70mm

Protection : IP65 at front panel

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CT secondary : 5A

Sender Measurement : 0 to 1300 ohm, accuracy: 1%FS, resolution: 1 ohm

Order Information						
Trans-MiniAUTO+	Auto Start GenSet controller, LCD display					
Trans-MiniAUTO+.CAN	Auto Start GenSet controller, CanBus J1939 ECU communication					
Trans-MiniAUTO+.MPU	Auto Start GenSet controller, speed sensing from Magnetic Pickup					



energy



Automatic Gen-Set Controllers with Transfer Switching



CanBus J1939 ECU communication

Parameter configuration via RS-232 serial communication

Log last 50 events & alarm information with measured values

Statistics records

Remote Start/Stop, Speed and Idle mode control via J1939

Power factor measurement for 1 phases

3 resistive sender inputs for Temperature, Oil Pressure and Fuel Level

Selectable Resistive sender types; Pt-100, VDO, US, GM, Ford, Datcon, etc...

Speed sensing from alternator voltage or magnetic pickup

1 phase Load current measurement

3 phase mains and 1 phase alternator voltage measurement

Configurable 3 inputs and 4 outputs

ECU power, ECU stop, Stop or Fuel solenoid selection

Programmable weekly working permit calendar

Exercise at programmed time intervals

Automatic transfer switching control and engine control

Compatible to Diesel or Gas generators

Active, Reactive, Apparent power measurement

Adjustable Start, Load and Stop timers

SPN, FMI and OC values reading from engines via J1939

Pre-Alarm

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

Warning & Electrical trip

Over current Short circuit

Alarm

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

Controls

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

Fail Monitoring

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

Erro

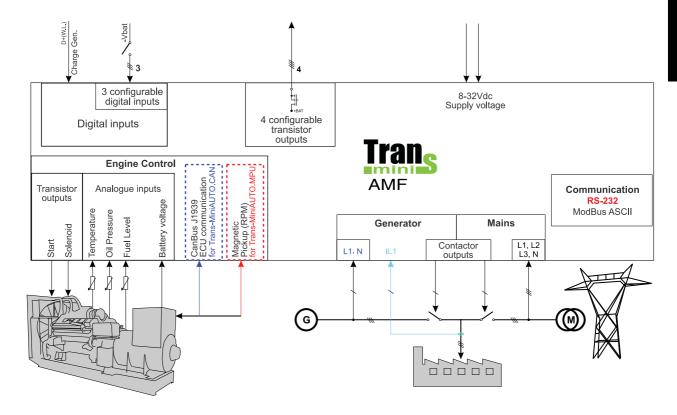
Over / Under speed Speed loss Battery low Battery high Maintenance Over current Short circuit Engine stop CanBus Charge alternator











Dimensions : 111mm x 81mm x 61mm

Panel Cut-Out : 81mm x 70mm

Protection : IP65 at front panel
Weight : Approximately 0,3Kg
Operating temperature : -20 C to +70 C

DC battery supply voltage : 8 to 32Vdc, max. operating current is 360mA

CT secondary : 5A

Sender Measurement : 0 to 1300 ohm, accuracy: 1%FS, resolution: 1 ohm

Order Information					
Trans-MiniAMF	Automatic GenSet controller with transfer switching				
Trans-MiniAMF.CAN	Automatic GenSet controller with transfer switching, CanBus J1939 ECU comm.				
Trans-MiniAMF.MPU	Automatic GenSet controller with transfer switching, speed sensing from Magnetic Pickup				





Automatic Transfer Switching Controllers



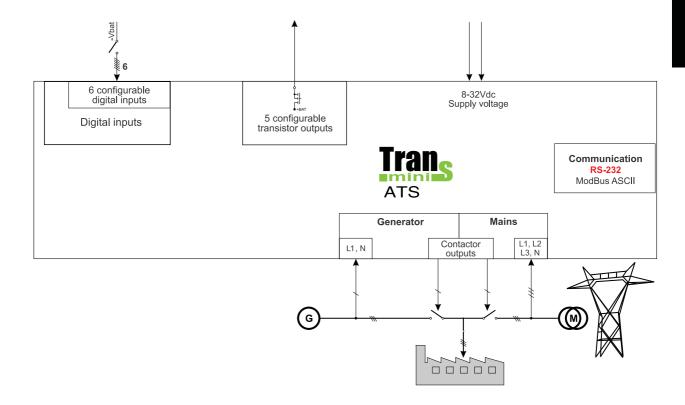
Parameter configuration via RS-232 serial communication
Log last 50 events & alarm information with measured values
Statistics records
Remote Start/Stop output
Configurable 5 outputs and 6 digital inputs
3 phase mains and 1 phase alternator voltage measurement
Configurable Load Generator and Engine running inputs
Mains voltage failure detection
Emergency backup and Test mode











Dimensions : 111mm x 81mm x 61mm

Panel Cut-Out : 81mm x 70mm

Protection : IP65 at front panel

Weight : Approximately 0,3Kg

Operating temperature : -20°C to +70°C

DC battery supply voltage : 8 to 32Vdc, max. operating current is 360mA

Order Information	
Trans-MiniATS	Automatic transfer switching controller, LCD display







Manual Key Start & Engine Protection with Key Switch

Automatic shutdown on fault condition,

Alarm and status information,

Auxiliary shutdown input,

Provides charge alternator excitation current,

Over speed protection option with tachometer metering output,

Optional tamper-proof elased time meter,

Optional stop button,

72x72mm size

Controls

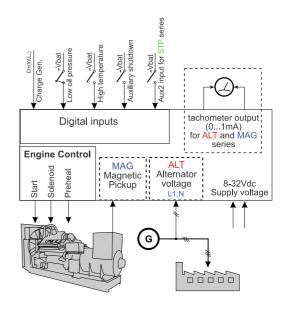
Fuel and Stop solenoid Starter motor Manual generator start/stop Preheat

Fail Monitoring

Low oil pressure High temperature Over speed failure Charging fail

Monitors

Engine running time Error indication



Order information	Product codes	EAOM-3	EAOM-3-ALT	EAOM-3-MAG	EAOM-3-HM	EAOM-3-HM-ALT	EAOM-3-HM-MAG	EAOM-3-STP	EAOM-3-STP-ALT	EAOM-3-STP-MAG	EAOM-3-HM-STP	EAOM-3-HM-STP-ALT	EAOM-3-HM-STP-MAG
Overspeed sensing from generator voltage			+			+			+			+	
Overspeed sensing from magnetic pickup				+			+			+			+
Time meter					+	+	+				+	+	+
Stop button								+	+	+	+	+	+
Stop/Fuel selection								+	+	+	+	+	+
Preheat		+	+	+	+	+	+	+	+	+	+	+	+
Aux.ln-1		+	+	+	+	+	+	+	+	+	+	+	+
Aux.In-2								+	+	+	+	+	+)





Battery Charger



for long battery life

3A or 5A output for 12Vdc and 24Vdc battery 100...240Vac wide range supply voltage Short circuit and over current protection Reverse connection protection Boost output for quick charging Easy replacable fuse Durability for voltage fluctuation

Flame resistance plastic box

Order information	
GENCHARGER-312S	SMPS Battery Charger, 3A Output for 12Vdc battery, 100-240Vac supply voltage
GENCHARGER-512S	SMPS Battery Charger, 5A Output for 12Vdc battery, 100-240Vac supply voltage
GENCHARGER-324S	SMPS Battery Charger, 3A Output for 24Vdc battery, 100-240Vac supply voltage
GENCHARGER-524S	SMPS Battery Charger, 5A Output for 24Vdc battery, 100-240Vac supply voltage

energy

Company Profile











EMKO ELEKTRONIK A.S. has been engaged in the design, manufacture and marketing of Measurement and Control Instruments, Temperature Sensors and Generator Set Controllers, as well as in providing the relevant before and after sales technical service. Giving the utmost importance to the customer-oriented approach and to product functionality and quality, we have carried out the design and manufacture of programmable multi-function process-control instruments, counters, time-relays, thermocouples and thermoresistances, control and protection generating systems; gen-set controls, automatic transfer switching, manual-keystarts.

Our product range and services meet the needs of the textile, food, plastic, glass, automotive, chemicals, iron and steel, cement, machinery production, energy and other sectors, with regard to the automation and process-control materials and services that they require. Thanks to the quality policy and procedures issued by the management of our company, which possesses the TS ISO EN 9001 Quality System Certificate, complete customer satisfaction in the areas of design, production and service is guaranteed. The design and manufacture of control devices conformed to the directives covered by the CE brand by preforming the EMI, ESD, EFT, PQF, Surge, LVD, Environmental Conditions tests on new product designs in the test laboratories on our factory premisses.

The following design issues are experimented with in our company:

- -Process measurement and control instruments which conform to the industrial standards.
- -The measurement, conversion and control of process parameters: temperature, pressure, weight, flow, level, speed, humidity, number, time, voltage and current etc.
- -Temperature sensors, thermocouples and thermoresistances
- -Control and protection generating systems; Gen-Set controls, Automatic Transfer Switchings, Manual-keystarts

Our "Customer Support Service" provides pleasant, cheerful and a sincere approach to ensure that our customers select the most suitable products by providing satisfactory and correct technical information before the sale and if the orders are delivered correctly and on time by keeping track of orders within the company. Also, guarantees customer satisfaction at all times, in all places and under all circumstances by supplying them with speedy and reliable information through our authorized dealer and service network.

