AWF + RT + WCB

AR-AT3809A

AMF (Auto Mains Failure) + RT (Remote Transfer Switch)

Code: AR-AT3809A (only command)

TECNO ELETTRA

AT309A panel can be mounted on the top of the alternator or attached to the wall.

This panel is used to control one generator and mains and to command a remote transfer switch. This series of panels offer the complete manual and automatic management for generator and electricity network.

All electricity network's parameters are registered and, in case of anomaly, the controller will immediately start the generator.

When the voltage is within the programmed limits, genset contactor is immediately closed on load.

During the running period, the engine and the alternator are monitoring. Any anomaly is showed on the display and, shut down the engine. At the return of steady electricity network the controller will open the genset contactor and transfer the load to the network side. The generator will be stopped after the cooling time (programmable).

Benefits

Perfect: Price / Performance ratio

Perfect: Powerful + Technology & Italian Design

Perfect: Easy to use

-AT3809A

Perfect: Warranty: 24 months from real installation date

- > Back -lit LCD graphic display 64x128pixel with multipages information
- > Configurable Display with customer logo
- User friendly: each command with own button, own led indicator and intuitive fluorescent keyboard
- > Help button for on-board instructions
- > Easy navigation system by drive with 5 buttons
- > Different password access
- > Configurable alarms and protections (57)
- > High accuracy TRMS measurement
- > Date and time (Real Time Clock with battery)
- 4- languages available on board (others languages available on CD rom or website)
- > Engine history Events log (250) and data- logger
- > System statistics: Engine, Alternator and mains
- Genset statistics page with detection and storage of electrical peaks and engine's most frequent anomalies
- > 1 RS232 port Modbus RTU protocol
- > 1 RS485 port
- > 1 USB port
- > 1 Can Bus J1939 port
- Modem communication via GSM GPRS Ethernet
- Fast and Easy, of alternative configurations
- Fully programmable by keyboard
- Licence free, Remote control software and monitoring "TE monitor" via PC, included the "TE designer" for PLC logic/display functions
- Intelligent Fast setup menù
- > OpEx for the control of management costs
- Connection with the multi expansion boards TE6010: programmable I/O (both analog and digital) and relay outputs

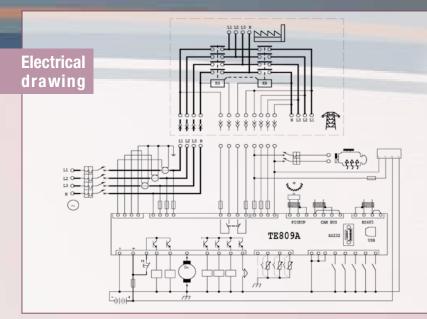


Standard Composition

- > 1- metal case 15/10 thick painted by epoxy powder
- 1-Plastic cover
- 1-Alarm Buzzer
- > 10- protection fuses fox auxiliary
- 1-Terminal board for special function auxiliary connection, auxiliary engine and command to remote transfer switch
- > 1-Switch 1P+N pre-heat engine 230Vac/10A
- 1-Emergency button
- > 1-On/off key
- 3-Ampermetric transformer (only in the version with circuit breaker "generator protection")
- > 1-TE809A controller

Technical data

- > Work temperature range: -30°C + 70°C
- > Ambient protection IP20
- > Range Vdc: 8-35
- > Range Vac: 50-500
- Measuremtens precision: 0,2% ±1digit
- > Voltage and current measurements in True RMS
- > Graphical display: 64x128pixel
- Static ouput (4) 2 Ampere
- Static ouput (2) 6 Ampere
- Built in conformity to EN60439-1
- Dimensions: 280 x 400 x 150



TE809A controller description

- > Three -phases mains control
- > Three-phases generator control
- > 10-function keys
- > 1-Navigation drive
- > 10-indication LEDs
- > Generator measures: Vac, kVA, kW, kVAR, kWh, cos.fi, Hz
- > Engine instruments: Oil pressure, Engine temperature, Fuel level, Autonomy hours, Work hours, Hours left to service, Daily work hours, Vdc
- Load measures: Ampere L1-L2-L3
- > Mains Measures : Vac, kVA, kW, kVAR, kWh, cos.fi, Hz
- > 57-Alarms and protections (Configurable)

OpEx for the control of management costs

- > Liters of last leakage
- > Total liters lost for leakages
- > Total cost of leakages
- > Liters of last abnormal consumptions
- > Total liters lost for abnormal consumptions
- Total cost of abnormal consumptions
- > Liters lost for last refilling not completed
- > Total liters lost for refillings not completed
- > Total cost of refillings not completed
- > Total cost of fuel wastages
- Efficiency based on consumption and produced kWh

Standard composition + MCB (circuit breaker)

- > Costs of services
- Total operating cost



Optional pag. 60

- > GSM modem (1571806B)
- GPS modem (1571806H)
- Serial to Ethernet converter (1571806G)
- 1570401M: battery charger 12Vdc 5A 1570402M: battery charger 24Vdc 2,5A

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- Built in conformity to EN60439-1 >

Special functions on board

- > Timer start/stop for programmable daily or weekly starts and stops
- > SCR/EJP: remote start with group contactor closure even if the mains is present
- Start/Stop of the genset by kW threshold
- Dummy load command
- Automatic buttons block >
- Fast switch by the display or with an external imput :50/60Hz -3Ph/1Ph
- Refilling fuel pump >
- programmable analog/digital inputs(3) (included PT100/PT1000)
- programmable digital inputs (5) (each with 21 preset functions)
- programmable static outputs (6)(each with 21 preset functions)
- > Pick-up input

Brandard dompoblicit (1102 (direate broaker)					
Α	400vAC 3ph	230Vac-3ph	Vdc	Dimensions	Code
	kVA	kVA		H x W xD	
16	11	6	12	310X405X165	ARM-AT3809A4011
20	14	8	12	310X405X165	ARM-AT3809A4014
25	17	10	12	310X405X165	ARM-AT3809A4017
32	22	13	12	310X405X165	ARM-AT3809A4022
40	28	16	12	310X405X165	ARM-AT3809A4028
50	35	20	12	310X405X165	ARM-AT3809A4035
63	44	25	12	310X405X165	ARM-AT3809A4044
80	55	32	12	310X405X165	ARM-AT3809A4055
100	70	40	12	310X405X165	ARM-AT3809A4040
125	87	50	12	310X405X165	ARM-AT3809A4087

- ARM=
- AMF (Auto Mains Failure).
- RT (Remote Transfer Switch), MCB (Circuit Breaker)

The images in the catalogs are purely indicative and Tecnoelettra reserves the right to apply, in any moment and without notice, changes even structural to the product.

AZIENDA CON SISTEMA QUALITÀ CERTIFICATO DA DNV **UNI EN ISO 9001**