TECNOELETTRA
SINCE 1985

TE808 PLATINUM

AUTOMATIC SYNCHRONIZING CONTROLLER

Cod:1578005

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =

KEY FEATURES

- A unique controller for:
  - Mains/Generator synchronization
  - Generators syncronization up to 30 engines
- Engine Canbus communication J1939
- 2xRS232 and 1xRS485 independent serial interfaces
- Help service page, with visualization of the status of inputs and outputs
- 2 years warranty from the real installation date, automatically detected by the controller
- Self-learning function to autotest the connections and regulators
- Opex fuel management
- Maximum vibration resistance, approved up to 30g
- Large display 320x240 pixels with all the information
- Advanced SMS control using external GSM modem
- Modbus RTU and TCP-IP support.
- Remote monitoring using TE-Monitor software
- 250 Events log
- Real time clock

FEATURES

- Active and Reactive power management matching
- Power factor management for Mains sinchronizing
- Analog speed governor management ±10Vdc
- Digital speed governor management by digital outputs
- Analog automatic AVR management -5+5 Vdc
- PID control of voltage, power factor, active power and frequency
- Voltage matching control programmable
- Frequency matching control programmable
- Synchronism matching control programmable
- Connection with the multi expansion board TE6010: programmable I/O (analog and digital) and relay outputs
- 7 Configurable digital input
- 7 Configurable digital output
- 3 Configurable analog input
- Multiple date and time running scheduler.
- Automatic fuel pump control programming.
- Configurable flexible sensors input
- Easy acess to diagnosis page
- Data logging and Trend
- 5 key navigation drive
- Help information available on screen
- IP 65 ratings

SYNCHRO FEATURES

- Adjustable load sharing slope
- Dynamic start/stop procedure, in accordance to the generators working hours
- Reverse power protection
- Load power control
- Unbalanced load control
- Overload alarm by magnetothermic protection curve
- Phases sequence control
- Alternator alarms/protections management
- Generator and Mains MCCB or ACB command
- Synchronization between sources with different powers
- Four different languages available (others to be download on the controller).
- Charger Alternator protection
- TRMS Voltage Measurements
- Manual Voltage and Frequency adjustment
- Dummy load
- Load shedding
- Mains synchronization AMF no break
- Peak shaving

+70 C°

-30 C°

Display: Measurement and General Information

- Electrical Parameters (generator/mains):
  Voltages (L-L and L-N)
  Currents
  Hz
  PF
  kW
  kVA
  kVAR
  kWh
  Mains kW
  DV
  DHz
  D°
- Environmental temperature
- Autonomy hours
- Engine instruments:
  Oil pressure
  Engine temperature
  Fuel level
- Work hours
- Hours left to service
- Battery Vdc
- Active alarms page
- Events log
- Engine warranty
- I/O Monitor page
- Date and time

Keyboard

- Start button
- Stop button
- Manual mode button
- Automatic mode button
- Reset button
- Esc button
- Hz/Vac button,for manual adjustment of Voltage and frequency.
- On/Off button to open and close manually the generator switch
- Test button
- Help button
- Menù button
- Next display page button
- Previous display page button
- Navigation drive
- Increase button, to increase manually the Vac/Hz selected value
- Decrease button, to decrease manually the Vac/Hz selected value

Hardware Description

- 1 USB port
- 2 RS232 port
- 1 RS485 port
- 1 Canbus J1939 port
- 1 Canbus controllers communication
- 1 Pick-up input (0 - 8kHz)
- 1 D+static output
- 9 Relay outputs
- 1 Analog output [-5 +5V]
- 1 Analog output [0 +10V] reversible
- 10 Digital inputs
- 3 Resistive analog inputs
- 1 - 4-20mA input for external wattmeter
- 6 Voltage inputs
- 3 Current inputs
- 15 Buttons

Construction Data

- Dimensions: 138x257x110
- Cut-out: 113x232
- Weight: 3 kg
- Work temperature range: -30°C + 70°C
- Ambient protection IP65
- Range Vdc: 8-35
- Range Vac: 50-500, and up to 15kV in MV by voltage transformers

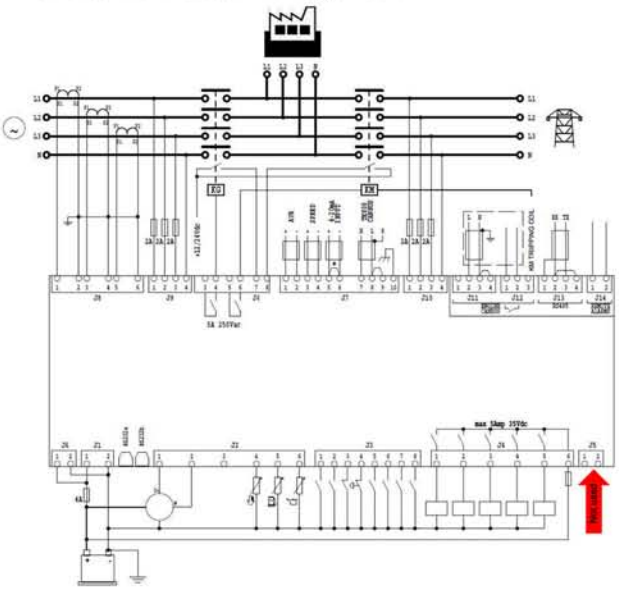
OpEx Fuel Measures

- Average consumption
- Instant consumption
- Fuel leakages
- Refilling detection
- Fuel cost / kWh

Different types of synchronization

Generator & Mains synchronization

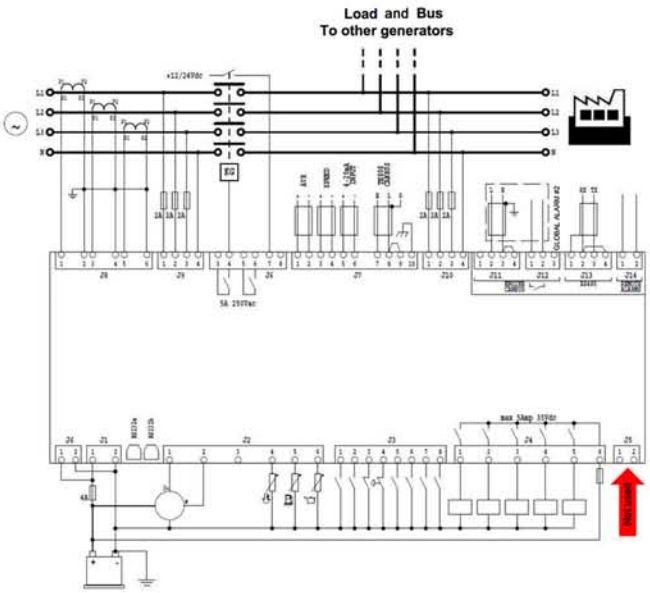
- Synchronization between mains and 1 generator:
  - Simultaneous load supply
  - Cogeneration
  - Auto start of single genset for mains failure, with no break on mains return
  - Synchro between mains and generator with peak shaving
- Synchronization between mains and 2 or more generators, with external master management



Generator synchronization

Synchronization between 2 or more generators:

- Load sharing without start/stop automatic management
- Load sharing with start/stop automatic management
- TPS - Schedule programmable start time with synchronization



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THE EXCELLENCE OF ITALIAN DESIGN

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