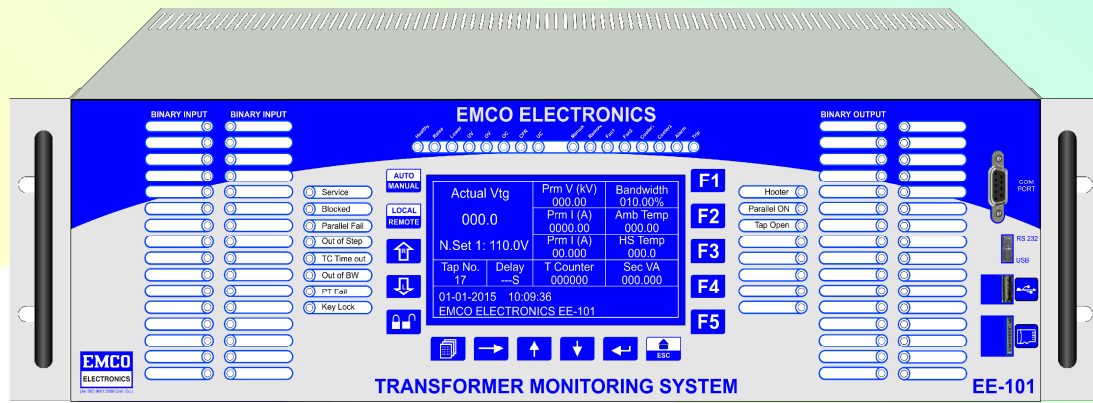


Transformer Monitoring System : model EE-101



EMCO Electronics Transformer Monitoring System EE-101 is designed with high-end features for complete monitoring and control of Transformer and On Load Tap Changer. EE-101 is designed in 19" subrack for Rack mounting. 5.1" Graphics display with 16 Nos. of keys makes viewing and editing all parameters very easy. Actual status of Transformer at any instance can be known through Status LEDs. Programmable Inputs and Outputs make the customization of complete system a very easy task. International standard Communication protocols like IEC-61850 makes EE-101 a global product.

Features

❖ Monitoring and Control of Transformer Parameters like

- > Voltage
- > Current
- > Tap Position
- > Temperature
- > Paralleling
- > Life Consumption
- > Freely programmable Binary Input (BR, PRV, Lockout Relay Op. etc)
- > Freely programmable Binary Output
- > Freely programmable Analog Input (DGA, H2 etc)
- > Freely programmable Analog Output
- > Modbus Protocol for Communication
- > IEC61850 Protocol for Communication
- > Data and Event logging
- > Log Backup

Product specifications are subject to change without notice.

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Transformer Monitoring System : model EE-101

- ❖ 5.1" Large Graphics display with 16 front keys for User friendly interface.
 - > Large display to monitor the values of most required parameters in a single view.
 - > Large 16 Keys divided into 5 Shortcut keys, 5 Function Keys and 6 Parametering keys for user friendly interface and ease of parametering.
- ❖ Status LEDs to indicate various states of Transformer and Controller.
 - > LED indications for various conditions of Transformer like UV, OV, UC, OC etc
 - > LED indications for various conditions of TMS like Blocked condition, Tap open etc.
- ❖ Modbus, IEC-61850 Protocols for Communication.
 - > One RS-485 port or One Ethernet port available for Modbus or IEC-61850 protocols respectively on the rear panel.
- ❖ Event recording and Data logging of all required parameters.
 - > Data Logging of all important parameters like Voltage, Current, Tap, Temperature etc with programmable logging time.
- ❖ Portable Data Backup through SD Card.
 - > Data Log and Event Log backup on SD card in ready to read Excel file.
- ❖ Direct keys for Auto/Manual, Local/Remote, Raise/Lower and Home screen.
- ❖ Five Function keys for easy editing of Parameters
- ❖ 19" Standard Subrack assembly for easy installation.
- ❖ Plugin type Rear panel Terminal block connectors for ease of wiring.
 - > Plugin type combicon connectors for easy wiring and installation.
- ❖ Programmable Analog Inputs and Outputs.
 - > Total of 28 freely programmable Analog Inputs and Total of 16 freely programmable outputs available.
 - > Dissolved Gas Analysis via 4-20mA Input like DGA and H2
 - > External Temperature, TPI, Oil Level etc. can be monitored via 4-20mA I/P
- ❖ Programmable Binary Inputs and Outputs.
 - > Total of 32 freely programmable Binary Inputs and Total of 32 Binary outputs of which 9 freely programmable Binary outputs available.
- ❖ Parallel operation of Transformer using Master/Follower and Circulating Current Method.
 - > Independent - Master - Slave - Follower scheme for parallel Transformer control.
 - > 2 Transformers in Master-Slave mode.
 - > 10 Transformers in Master-Follower mode.
 - > Circulating Current method for Parallel control of 2 Transformers.
- ❖ Life Time consumption of Transformer.
 - > Life Time Consumption of Transformer calculations available.
- ❖ Predictive mode for controlling Transformer Temperature.
- ❖ Cooling control with 6 level settings.
 - > 6 independent relays with individual set points for controlling the Temperature of Transformer.
- ❖ Voltage compensation using LDC and Z compensation.
- ❖ Load based and Time based Load Shedding.
- ❖ Universal Power supply.

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