Maxchek 400

Maximum demand controller









Automatic demand manager

Maxchek 400 is a smart maximum demand controller with standard size 96x96 mm specifically designed for industries to keep a check on their maximum demand. It gives an alarm when demand approaches a preset value and also switches off non-essential loads in a pre-programmed logical sequence. This predictive maximum demand controller (MDC) allows stage wise load restoration to maximize the use of a sanctioned load. Maxchek 400 is most suitable for the demand control of industrial consumers. HT consumers and commercial establishments. It also support ethernet module for communication.



Application

- · Commercial and industrial sanctioned demand monitoring & controlling applications
- Control panels for complete plant demand controlling
- Demand management for commerce and industry

Benefits

- Easy interface with external devices through built-in Modbus (RS-485)
- Detachable connectors for easy installation
- · Three relay and one alarm output
- · Suitable for star or delta connections and for low or high-voltage applications
- · Alarm output for audible indication.
- Field-configurable CT/PT primary and secondary values using push-buttons
- · Calibration LED for on-site accuracy check
- · Configurable software (ConfigView) for reading of parameters and load survey
- · Shift wise demand configuration

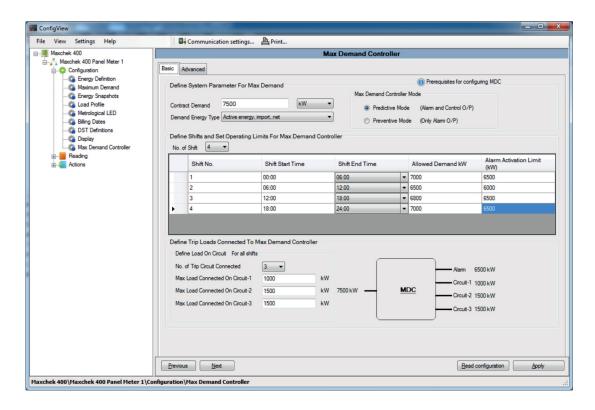
Feature

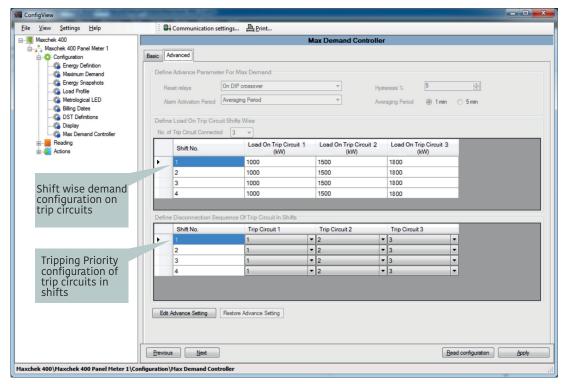
- · Two modes of programming preventive mode (only alarm no control), predictive mode (alarm and automatic control)
- Predictive demand control to forewarn, take corrective measures and check maximum demand crossovers
- Multi-level (phase wise and shift wise) priority based automatic load control mechanism to disconnect low priority loads in phased manner
- · Configurable demand integration period for sliding and fixed type
- · Optimised load disconnection time
- Online load planning by continuously indicating loads that can be added or need to be disconnected (within safe operating limits)
- Check meter with accuracy class 0.2s,0.5s and 1.0
- · Auto and push button display
- An user friendly software to program and monitor
- Control outputs for alarm and trip applications it provides 3 control and one alarm outputs, in the form of potential free contacts
- Large four-line seven-digit display (9.7 H x 5 W mm) with quadrant identification section and bar graph for instantaneous power-level indication
- · Ethernet gateway module for easy integration



Maxchek 400

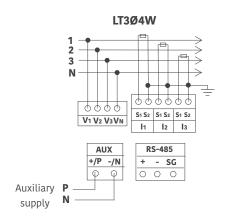
Enriched software - ConfigView



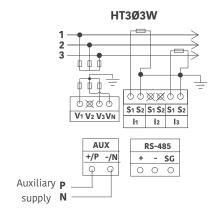


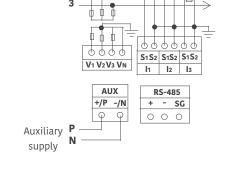


Connection diagram



In case of CT/PT operated meter, ensure that meter is connected on secondary side of instrument transformer.



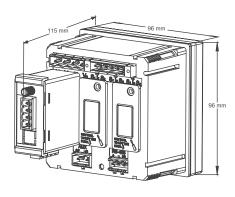


HT3Ø4W

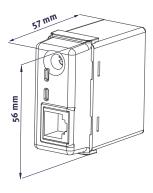
In case of 3Ø3W, VN is replaced by V2.



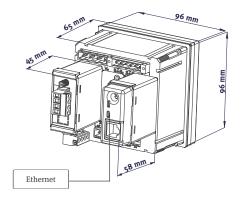
Mechanical dimensions



Meter with control & alarm module



Ethernet module



Meter with control & alarm and Ethernet module $\,$

Maxcheck 400



Technical specifications

Electrical

Connection type Common product for HT3/ HT4/LT application Wiring configuration Common product for 3 P-3 W and 3 P-4 W application

Voltage range:

Measurement voltage range 57.7 V(100V) - 240 V (415 V) AC 3 phase 4 wire (3 phase 3 wire)

Tolerance -30% to +20% of Vn

80 - 300 V AC/DC or 24 - 60 V DC (variant) Aux power supply range

Available 1-2A and 5-10 A in single variant (field configurable) Current range

Main frequency 50/60Hz with ±5% Accuracy class 0.2s, 0.5s, 1.0

Aux burden: 3.5 VA; 8VA with module connected Burden

Current ckt burden: 1 A - 0.05VA per phase, 5 A - 0.25 VA per phase

Voltage ckt burden: 0.15 VA per phase

Active Imp (T), Apparent Imp, Active Forwarded, Apparent Forwarded Energy type

Averaging period 1min or 5min Trip circuit 3 Circuit

Active for 30 seconds or active for whole averaging period Alarm activation time Short time over current 20 x I_{max} for 1 sec., 10 x I_{max} for 3 sec., 7 x I_{max} for 10 sec.

Compliance

Standards* IS13779, IS14697, IEC62052-11, IEC62053-23 and IEC62053-22, IEC61010

Dimensions (WXHXD)

Mechanical 96 x 96 x 115 mm

Cut out size 92 x 92 mm

Weight 0.5 kg (approx)

Mechanical enclosure **FRPC**

Terminals Combicon connector

Max conductor size 2.5 mm2

Environmental

IP 54 (front fascia); IP20 (at terminals) lingress protection

Insulation 4 kV RMS 50 Hz

Impulse withstand 6 kV

-20 °C to +60 °C (operating) Temperature -25 °C to +80 °C (storage)

Humidity 95% non-condensing

Features

Favourite page On/Off

CT/VT primary Configurable in field through keypad

Communication RS485 Modbus half duplex (default) and data will be available in floating point

format

Baud rate from 1200-38400 bps (default 9600 bps) 40 days for 6 parameters @ 30 min IP Load survey

Options for 15 or 60-minute integration period.

Modules

Control & alarm 1 Alarm (230VAC/DC at 100mA) and 3 control output (2A at 230VAC, SPST NO

Ethernet 10/100base-T for Modbus over TCP/IP communication

Australia

sales_australia@securemeters.com www.securemeters.com/au

Dubai

sales_middleeast@securemeters.com www.securemeters.com/me

Europe

sales_europe@securemeters.com www.securemeters.com/eu

India, SE Asia, Africa

sales_india@securemeters.com www.securemeters.com/in

UK

sales_uk@securemeters.com www.securemeters.com/uk

pecifications are subject to change without prior notice