THYCON

Est.1968

Multi Circuit Monitor

10kVA – 1 MVA

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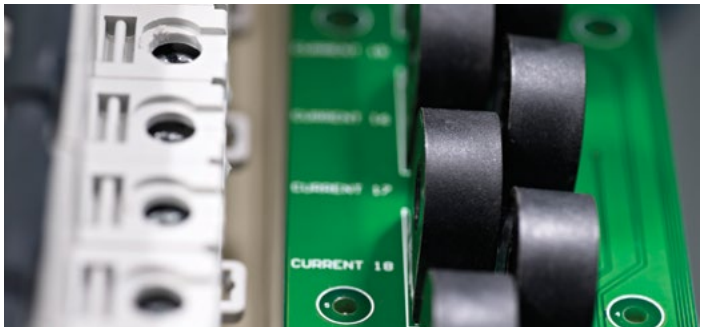
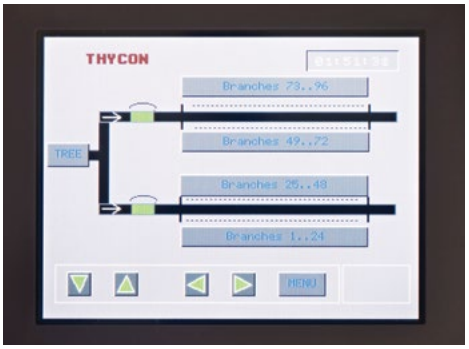


Current Monitoring Transducers



Optional Display

Concept

The Thycon Multi Circuit Monitor (MCM) is the ideal product for data centre managers, engineers and operational personnel who are responsible for delivering efficient and reliable power to critical applications.

With the Multi Circuit Monitor (MCM) installed into Power Distribution Units (PDU), data centre operators are able to optimise the critical power infrastructure to meet the demands of continuous availability.

The MCM is flexible in it's implementation by the fact that the circuit monitoring modules, while they are 24 circuit as standard, can be 6 circuit, 12 circuit & 18 circuit if required. As well as being configured to work in any combination of distribution trees available, they can also be placed under computer floors within their own enclosures and connected via cat 5 cable to an Ethernet hub then from there to the Monitoring Module Interface that can be located where required.

Features

The MCM unit measures the PDU voltages and currents and calculates the following parameters:

- L-L RMS voltages
- L-N RMS voltages
- RMS currents
- Peak RMS voltage for each of the 3 L-N phases
- Peak RMS current for each circuit
- P(W) and S(VA) for each circuit
- Demand values kWH and kVAH for each circuit
- THD and harmonics analysis for each circuit and each L-N voltage
- Power factor for each circuit
- Crest factors for L-N voltages and circuit currents

Applications

Ideal for data centres, industrial facilities and IT facilities where monitoring of power distribution is required for:

- allocating energy costs
- tracking power usage
- avoiding outages through proper power monitoring
- optimising existing power infrastructure
- improving efficiency in the distribution of power
- enabling accurate sub-billing of power usage

Technical data

Metering (per circuit)	*Mains Metering (per phase)*
RMS current	L-L RMS voltages
Maximum current	L-N RMS voltages
THD of current	Maximum L-L RMS voltages
Current harmonics	Minimum L-L RMS voltages
Power factor	Maximum L-N RMS voltages
kW	Minimum L-N RMS voltages
kVA	THD of each L-N
Maximum kW	Harmonics of each L-N
Maximum kVA	Crest factor of each L-N
Demand kWh	Frequency
Demand kVAh	Total kW, kVA
Current crest factor	Total current
Alarms	*Metering Accuracy*
Over current detection	Current : 1% of full scale
	Voltage : 1% of full scale
Communication	*Metering Range*
MODBUS/TCP protocol over Ethernet	Current to 100A using 100A CT
MODBUS RTU over RS-485	Voltage 90..300 V L-N using appropriate voltage interface

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THYCON INDUSTRIAL PTY LTD
20 Audrey Ave Coburg
3058 VIC Australia
PH 61 3 9319 9000
FAX 61 3 9319 9001
ABN 17 068 011 049
www.thycon.com.au
info@thycon.com.au

24 HR Service Australia
1800 670 700