



Communication facility added to *TemPower2*

TemPower2 is equipped with an optional communication interface unit that allows data exchange with a host PC via a Modbus open network. Data communicated includes measurements, fault log, maintenance information, ON/OFF status, settings, and control (ON/OFF/RESET) signals.

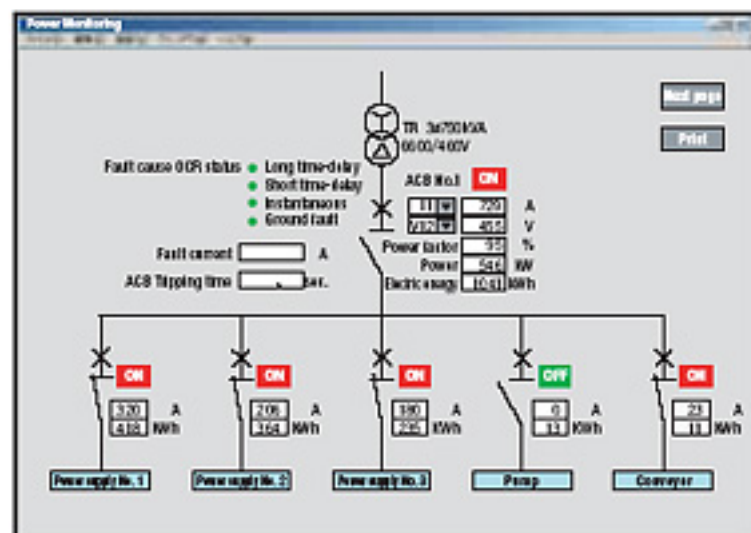
Fault log

Cause	Whichever trip functions, LTD, STD, INST, or GF is activated is then transmitted.
Fault current	The fault current at which the breaker tripped open is transmitted.
Trip pickup time	The trip pickup time is transmitted.

Maintenance information

Tripping circuit monitoring	The tripping coil is always monitored for disconnection. If the breaker is not open within approx. 300 ms of a trip signal delivered from the OCR, an alarm signal is generated.
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On-screen PC monitor



Data measurement

Phase current	Phase current I_1 , I_2 , I_3 , I_N , I_g and max. I_{max} are measured and transmitted.
Line-to-line voltage	V_{12} , V_{23} and V_{31} are measured.
Active power	Three-phase power and the reverse power are measured.
Demand active power	Active power demand (over time) and max. power are recorded.
Accumulated power	Accumulated power is measured.
Power factor	Circuit power factor is measured.
Frequency	Frequency is measured.

Network interface I/O specifications

Item	Modbus
Transmission standard	RS-485
Transmission method	Two-wire half-duplex
Topology	Multi-drop bus
Transmission rate	19.2 kbps max
Transmission distance	1.2 km max (at 19.2 kbps)
Data format	Modbus-RTU or ASCII
Max number of nodes	1 – 31

Communication network

