

TE10P

True Single Phase Power Controller



The TE10P provides high accuracy true power control for a wide variety of industrial single phase loads, even those that are difficult to control. Such loads as high precision semiconductor applications, moving loads with difficult temperature monitoring conditions, and time and temperature dependent loads such as silicon carbide, molybdenum, platinum and short wave infrared lamps can be accurately controlled using the TE10P. The TE10P is configurable for a variety of inputs, firing modes, feedback parameters and load types. Currents from 16A to 400A and voltages from 120Vac to 500Vac can be accommodated. A four-digit display and a pushbutton simplify operation, configuration, commissioning and maintenance. Optional communications with Modbus® or Profibus® allow the unit to be externally controlled. Other features include a configurable alarm relay and an analog retransmission of power. The optional model 260 diagnostic unit is used for monitoring and commissioning.

Features

- 16A-400A, 500Vac max.
- suitable for resistive, inductive or temperature and time dependent loads
- accuracy and stability better than 1%
- optional Modbus® and Profibus® comms.
- analog retransmission and alarms
- optional model 260 diagnostic unit

Specifications

Ratings:

16 to100A:	external fuse
125 to 400A:	internal fuse, fan cooled 100 to 500Vac

Dimensions:

16 to100A:	225H x 116W x 169D mm, 3.2Kg
125 to 400A:	470H x 133W x 260D mm, 11.5Kg

Load type:

Resistive, variable resistive, inductive or short wave infrared

Inputs:

Analog DC, logic or digital comms

Firing modes:

Logic, fast cycle (soft start), advanced single cycle, phase angle

Controlled parameters:

Power (V x I) Current, voltage, current squared, voltage squared, open loop, automatic transfer $I^2 \leftrightarrow V^2$, or $I^2 \leftrightarrow P$

Digital communications:

RS-422 or RS-485, Modbus® or Profibus®-DP

Operating temperature:

0 to 45°C, 5% to 95% RH, non-condensing

