

# T-PRO 4500 Transformer Protection Relay

## Ordering Template

In order to specify and order an ERLPhase T-PRO 4500 relay properly configured for the application, a configuration ID must be constructed as indicated below:

**T-PRO**                      **aaaa - b - c - d - e - f - g - h - i - j**

### **aaaa – Model:**

- 4500

### **b – Analog Channels:**

- **A:** 7VT + 11CT

### **c – Auxiliary Supply & External Input Rating:**

- **1:** Auxiliary supply - 20 to 60 V<sub>dc</sub>, external input - 24 V<sub>dc</sub>
- **2:** Auxiliary supply - 20 to 60 V<sub>dc</sub>, external input - 48 V<sub>dc</sub>
- **3:** Auxiliary supply - 80 to 300 V<sub>dc</sub> / 80 to 250 V<sub>ac</sub>, external input - 110 V<sub>dc</sub>
- **4:** Auxiliary supply - 80 to 300 V<sub>dc</sub> / 80 to 250 V<sub>ac</sub>, external input - 220 V<sub>dc</sub>

### **d – Number of Inputs & Outputs:**

- **A:** 8 External inputs and 8 relay outputs
- **B:** 16 External inputs and 16 relay outputs
- **C:** 16 External inputs and 24 relay outputs
- **D:** 24 External inputs and 32 relay outputs

### **e – Communication Ports:**

- **1:** Redundant Ethernet port (100BASE-T, RJ45, PRP)
- **2:** Redundant Ethernet port (100BASE-FX, ST, PRP)
- **3:** One Ethernet port (100BASE-T, RJ45)
- **4:** One Ethernet port (100BASE-FX, ST)

### **f – Frequency:**

- **A:** 50 Hz
- **B:** 60 Hz

### **g – Conformal Coating:**

- **0:** Not coated

### **h – Custom Firmware Request:**

- **0:** Latest version (default)
- **1:** Custom version (please specify firmware version number)

### **i – Custom Hardware Request:**

- **0:** No special build instructions (default)
- **1:** Special build instructions (please specify special instructions)

### **j – Configuration ID Version**

- **A:** Internal use

## Example:

<b>Ordering Code Example</b>	<b>T-PRO 4500</b>	<b>A</b>	<b>3</b>	<b>D</b>	<b>3</b>	<b>A</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>A</b>
<b>Analog Channels</b> - 7VT + 11CT										
<b>Auxiliary Supply</b> - 80 to 300 V <sub>dc</sub> / 80 to 250 V <sub>ac</sub> <b>External Input Rating</b> - 110 V <sub>dc</sub>										
<b>Number of Inputs &amp; Outputs</b> - 24 external inputs and 32 relay outputs										
<b>Communication Ports</b> - one Ethernet port (100BASE-T, RJ45)										
<b>Frequency</b> - 50 Hz										
<b>No Conformal Coating</b>										
<b>Latest Firmware Version</b>										
<b>No Special Hardware Build Request</b>										
<b>Configuration Template ID</b>										

## Standard Functions & Features:

- 1A (or) 5A CT Secondary input is site selectable
- Disturbance Recorder, Trend Records, Sequence of Events, Metering, ProLogic™, Trip Circuit Supervision
- Front USB port and rear serial RS485 port
- Modbus (or) DNP3.0 are supported over RS485 port & IEC 61850 (or) PRP are supported over Ethernet
- IRIG-B (or) SNTP for time sync
- Horizontal flush panel mounting chassis, 22 LEDs

## Manuals:

The latest version of the manuals can be downloaded from our website:

<http://www.erlphase.com/support.php?ID=documents>. If you do wish to purchase a hard copy manual, you may order that using the part number below.

<Part # 117695> T-PRO 4500 User Manual

## ERLPhase Power Technologies

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