

# T-PRO 4000 Transformer Protection Relay

## Order Template

In order to specify and order an ERLPhase T-PRO 4000 properly configured for the application, a part number must be constructed as indicated below:

**T-PRO 4000 a - b - ccc - d - e - f - g - hh - i - j - k - l**

### **a: Model:**

- 3: 3U chassis with 9 digital inputs, 14 digital outputs, 15 CT inputs, 3 PT inputs
- 4: 4U chassis with 20 digital inputs, 21 digital outputs, 15 CT inputs, 3 PT inputs

### **b: Secondary Input Current:**

- 1: 1 Amp
- 5: 5 Amp

### **ccc: External Input Rating:**

- 048: 48/125/250 Vdc set to 48 Vdc
- 125: 48/125/250 Vdc set to 125 Vdc
- 250: 48/125/250 Vdc set to 250 Vdc

### **d: Internal Modem:**

- 0: No internal modem (default)

Selection 1 is available only if “no redundancy option 0 is chosen in “e.”

- 1: Factory installed modem

### **e: LAN Redundancy Selection**

Network port redundancy on rear Ethernet port 119 is now available as an option at an additional cost. This option allows you to select whether you need redundancy, and if so, the kind of redundancy needed.

- 0: No redundancy (default)
- 1: RSTP Redundancy on Ethernet ports 119 and 124 (Internal Modem and Conformal coating are not available if selected)
- 2: PRP Redundancy on Ethernet ports 119 and 124 (Internal Modem and Conformal coating are not available if selected)
- 3: HSR Redundancy on Ethernet ports 119 and 124 (Internal Modem and Conformal coating are not available if selected)

### **f: LAN Media Selection:**

Selection 0, 1 and 2 are available if “no redundancy option 0 is selected in “e.”

- 0: Cu - Op => port 119 = 100BASE-T (RJ45), port 120 = 100BASE-FX (multimode, 1300 nm, ST)
- 1: Op - Op => port 119 = port 120 = 100BASE-FX (multimode, 1300 nm, ST)
- 2: Cu - Cu => port 119 = port 120 = 100BASE-T (RJ45)

Selections 3 and 4 are available only if a redundancy option is selected in “e.”

- 3: Cu - Op => port 119 = port 124 = 100BASE-T (RJ45), port 120 = 100BASE-FX (multimode, 1300 nm, LC)
- 4: Op - Op => port 119 = port 124 = 100BASE-FX (multimode, 1300 nm, LC), port 120 = 100BASE-FX (multimode, 1300 nm, LC)

### **g: Temperature Inputs:**

- 0: No temperature inputs
- 1: 2 temperature inputs

### **hh: Operating Frequency:**

- 50: 50 Hertz
- 60: 60 Hertz

### **i: Conformal coating:**

- 0: Not conformal coated (default)
- 1: Conformal coated

### **j and k: Special Build Instructions:**

The T-PRO 4000 comes with the latest firmware version. The Relay Inoperative is set as Normally Closed and user configurable outputs are set as Normally Open. If you want to request a particular firmware version or some special build needs, select option 1, and send your request along with the selected order string.

- 0: No special build instructions (default)
- 1: Special build instructions (write your request and send with selected order string)

### **l: This is a reserved character on the order string for internal purposes only.**

**Example:** T-PRO 4000 (3-5-125-0-0-1-0-60-0-0-0-A)

This part number specifies a T-PRO 4000 relay in 3U chassis with 5 Amp secondary input current, 125 Vdc rated external inputs, no modem card, without network redundancy option, without temperature inputs, with both LAN ports to be used for optical communications, suitable for operation on 60 Hertz system, without conformal coating and with latest software version and standard hardware build.

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**Manuals:** In our ongoing efforts to run our business in an environmentally sensitive way, we include manuals with the CD of all our products. The latest version of the manuals can also 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 # 113919>                      T-PRO 4000 User Manual

The specifications and product information contained in this document are subject to change without notice. In case of inconsistencies between documents, the version at [www.erlphase.com](http://www.erlphase.com) will be considered correct. (D02778R12)