

# L-PRO 4500 Transmission Line Protection Relay

## Ordering Template

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

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

### aaaa – Model:

- 4500

### b – Analog Channels:

- A: 6VT + 10CT
- B: 4VT + 5CT

### 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, 8 relay outputs
- B: 16 External inputs, 16 relay outputs
- C: 16 External inputs, 24 relay outputs
- D: 24 External inputs, 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

- A: Internal use

## Example:

<b>Ordering Code Example</b>	<b>L-PRO4500</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> - 6VT + 10CT										
<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, Swing 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 and IEC 61850 (or) PRP are supported over Ethernet
- IRIG-B (or) SNTP for time sync
- Horizontal flush panel mounting chassis and 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 # 117693> L-PRO 4500 User Manual

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