

# TESLA 4000 Power System Recorder with Sampled Values

## Order Template

Now with IEC 61850 Sampled Values support!

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

**TESLA 4000      Sa - bb - c - d - e - ff - g - h - i - j - k**

### Sa: Input Channels:

- S2: 36 sampled value (IEC 61850) inputs, 256 GOOSE (IEC 61850) inputs, 64 digital inputs, 8 digital outputs

### bb: Flash Memory:

- 16: 16G flash memory

### c: Internal Modem:

- 0: No internal modem

### d: LAN Redundancy Selection

Network port redundancy on rear Ethernet port 410 is available as an option. If redundancy is required, select between RSTP, PRP or HSR redundancy protocols.

- 0: No redundancy (PTP/IEEE 1588 not available if selected)
- 1: RSTP Redundancy on Ethernet ports 410 and 412
- 2: PRP Redundancy on Ethernet ports 410 and 412
- 3: HSR Redundancy on Ethernet ports 410 and 412

### e: LAN Media Selection

Selection 0, 1 and 2 are available if "no redundancy" option 0 is selected in "d".

- 0: port 401 = 100BASE-T (RJ45)  
port 402 = 1000BASE-T (RJ45)  
port 410 = 100BASE-T (RJ45)  
port 411 = 100BASE-FX (multimode, 1300 nm, ST)
- 1: port 401 = 100BASE-T (RJ45)  
port 402 = 1000BASE-T (RJ45)  
port 410 = 100BASE-FX (multimode, 1300 nm, ST)  
port 411 = 100BASE-FX (multimode, 1300 nm, ST)
- 2: port 401 = 100BASE-T (RJ45)  
port 402 = 1000BASE-T (RJ45)  
port 410 = 100BASE-T (RJ45)  
port 411 = 100BASE-T (RJ45)

Selections 3 and 4 are available if redundancy option 1, 2 or 3 is selected in "d".

- 3: port 401 = 100BASE-T (RJ45)  
port 402 = 1000BASE-T (RJ45)  
port 410/412 (redundant) = 100BASE-T (RJ45)  
port 411 = 100BASE-FX (multimode, 1300 nm, LC)
- 4: port 401 = 100BASE-T (RJ45)  
port 402 = 1000BASE-T (RJ45)  
port 410/412 (redundant) = 100BASE-FX (multimode, 1300 nm, LC)  
port 411 = 100BASE-FX (multimode, 1300 nm, LC)



### **ff: Operating Frequency:**

- 50: 50 Hertz
- 60: 60 Hertz

### **g: CE conformance:**

TESLA external inputs and outputs are rated to 300 Vdc. However, for CE compliance applications external input and output contacts are restricted to below 150 Vdc. This restriction is printed on the rear label of CE compliant labeled units.

- 0: Not CE marked (Upper limit of 300 Vdc on External Inputs) (default)
- 1: CE marked (Upper limit of 150 Vdc on External Inputs)

### **h: Conformal Coating:**

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

### **i: Custom Firmware Request:**

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

### **j: Custom Hardware Request:**

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

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

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**Example:** TESLA 4000 (S2-16-0-0-1-60-0-0-0-0-A)

This part number specifies a TESLA 4000 Sampled Values recorder with 36 sampled value inputs, 256 GOOSE inputs, 64 digital input, 8 digital outputs, 16GB of internal flash memory, no internal modem, no network redundancy, no PTP, one rear 100BASE-T Ethernet port, two rear 100BASE-FX Ethernet ports, one rear 100BASE-T Ethernet port, suitable for operation in a 60 Hertz system, with no CE mark requirement, no conformal coating, and no custom firmware or hardware requests.

**Manuals:** 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 # 117243> TESLA 4000-SV User Manual

### **ERLPhase Power Technologies**

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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. (D04977R00)