

TESLA 4000 Multi-timeframe Power System Recorder with CDR , PMU and IEC 61850 station bus protocol

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

TESLA 4000 - aa - bbb - c - d - ee

Model: _____

- 4000 - 3U Chassis

aa: # of Analog/Digital Input Channels:

Standard:

- 36: 36 analog input channels,
64 Digital input channels

bbb: Internal Storage: _____

- CP4 – 4 GB flash with CDR and PMU (standard)

c: Modem Card: _____

- 0: No Modem Card
- 1: Factory Installed Modem Card

d: Communications option for LAN Ports 119 and 120: _____

- 0: C – OP: One Copper, One Optical
- 1: OP – OP: Both Optical

C= Copper, RJ45, 100BASE-T

OP= Optical 100BASE-FX, Multimode, 1300nm, ST style connector

ee: Operating Frequency: _____

- 50: 50 Hertz
- 60: 60 Hertz

Example³:

TESLA 4000 - 36 – CP4 – 0 – 1 –60: This part number specifies a TESLA 4000 recorder with 4 GB flash memory internal storage with CDR and PMU software, no modem card, with both LAN ports to be used for optical communications, suitable for operation on 60 Hertz system.

Note:

- 1) PMU: Phasor Measurement Unit
- 2) CDR: Continuous Disturbance Recording
- 3) The TESLA 4000 comes standard as a 3U horizontal mounting model with 4GB flash internal storage with CDR and PMU functionality and with the software CD having the latest firmware

II) Recorder Accessories

A variety of accessories are available from ERLPhase to complement the recorder product family. The accessories listed in this section would be individually specified and ordered by item number.

Input Modules:

- 101754 – CT Module – 5A (four (4) input module)
- 101955 – CT Module – 1A (four (4) input module)
- 101756 – PT Module – 69V nominal (three (3) input module)
- 102079 – LEA PT Module – 4V (three (3) input module)
- 106243 – DC Module (four (4) channel isolated input module)
- 101783 – Split-core CT
- 101850 – Digital input shorting bar

Communication Accessories:

- 106916 – RuggedCom Ethernet switch (6 port)
- 106917 – RuggedCom LAN modem (DIN rail mount)
- 107081 – RuggedCom LAN modem (rack mount)
- 101787 – Serial Cable, RS232 Cable w/ 9 pin female to 25 pin male connectors
- 101629 – Modem Adapter for use with Serial Cable item # 101787

User Manuals:

- 106791 – Printed TESLA User Manual and CD