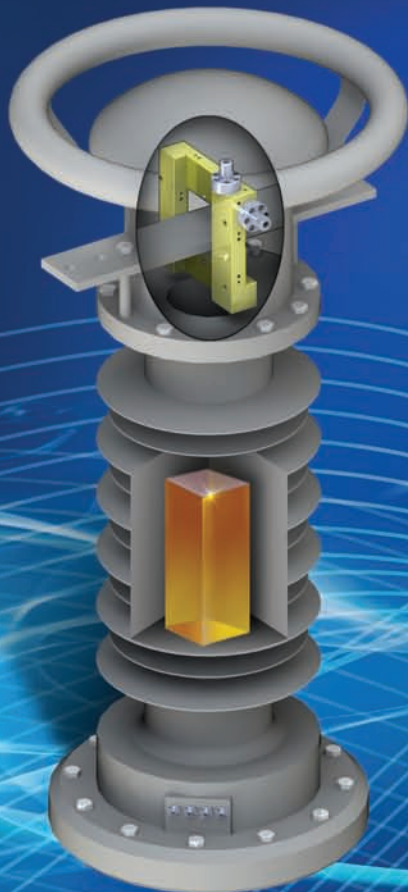


**Complex optical
voltage / current transducer
KRISMARS-CT/VT
6, 10, 15, 20, 35 kV; 5 kA**



Patent N 149253



Patent N 144464

*Project status: Research &
Development; investment offer
Result: testing and adjustment
of prototype*

ESME

Kalda tn. 9, Narva, Estonia, 20103

Tel.: +372 568 099 99

www.esme.ee

E-mail: mail@esme.ee

Purpose

- Designed to convert primary (high) voltage and/or current signals into the secondary analogue signals or IEC 61850 digital signals with the established scaling factor.

Field of application

- Automatic substation control and relay protection systems.

Operating principle

- Magneto-optical (Faraday) effect
- Electro-optical effect of electro-gyration.

Design for DSS applications

- IEC 61850-9-2LE compliant output.

Features and benefits

- No piezoelectric effect
- No magnetizing and magnetic saturation effects
- Phase-to-phase voltage can also be measured.

Components

- Optical sensor of current
- Optical sensor of voltage
- Optoelectronic unit (the desired current and voltage signals is taken from its output) + Merging Unit (for Digital Substation applications).

Equipment for testing and calibration

- Test Sets produced by Mars-Energoo.

