# Intelligent Station Merging Unit Optical Module



## Overview

The SIPROTEC 6MU85 is a modular, interoperable merging unit connecting primary and secondary technology. Digitalize all primary data close to the process for versatile data acquisition, autonomous automation and secure communication. SV-based process bus solutions from SEL utilize intelligent merging units with built-in protective functions, advanced monitoring capability, and the IEC 61850 and IEC 61869 standards to maximize application flexibility and interoperability. Merging units are a key element of the process bus. SMU615 is a dedicated merging unit with a standard digital interface, making it possible to connect ABB sensors and conventional instrument transformers to the IEC 61850-9-2 LE-based process bus for extended interoperability of substation automation devices. stem protection application purposes. SMU615 itself includes no protection functionality but it offers the physical interface into the switchgear primary equipment, that is, circuit brea er, disconnector and earthing switch.



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## Article Content

SEL Sampled Values (SV) Process Bus Solutions

SV-based process bus solutions from SEL feature intelligent merging units with built-in protective functions and use IEC standards to maximize flexibility and interoperability.

Merging Units

With an expandable design, modulate I/O (high density) and with analogue acquisition values, is the ideal solution for SCU applications in substation digital

Substation merging unit SMU615

SMU615 is a dedicated merging unit with a standard digital interface, making it possible to connect ABB sensors and conventional instrument transformers to the IEC 61850-9-2 LE-based process bus for

SEL-401 Protection, Automation, and Control Merging Unit

You can combine currents within the merging unit from two sets of CTs for protection functions but keep them separately available for monitoring and station integration applications.

SIPROTEC Process Bus

SIPROTEC Process Bus brings intelligence closer to the primary equipment. By placing a Merging Unit (MU) or Process Interface Unit (PIU) near instrument transformers and switching devices, analog

Substation Merging Unit SMU615 RELION

provided with a mechanical coding system preventing the current measuring units from being inserted into the merging unit cases intended for the voltage measuring units.

Terminal Merging Unit (TMU10)

Incorporating H Nu™''s patented ASP3I technology in a robust proven platform, the TMU10 interrogates up to six optical sensors and publishes the results as a IEC 61850/61869 sampled value data stream.

IEC 61850 Stand Alone Merging Units

The Stand Alone Merging Unit is a device that enables the implementation of an IEC61850 process bus by converting the analog signals from the conventional

Merging unit – SIPROTEC 6MU85 | Siemens

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The SIPROTEC 6MU85 is a modular, interoperable merging unit connecting primary and secondary technology. Digitalize all primary data close to the process for versatile data acquisition, autonomous

TMU11 Optical Merging H Nu Unit Electrical Measurement

optional analog output allows for backward compatibility for legacy systems. A complete system consists of a number of optical heads, mounted on insulators, and a merging unit which can

Substation merging unit SMU615

SMU615 acts as a merging unit, measuring currents and voltages in the substation and sending them as Sampled Measured Values (SMVs) over Ethernet to other device(s).

(Digital Substation and Process Bus "Part 2 of 5") Merging Unit and

Merging Unit : The Merging Unit (MU) is the key element of the process bus; it is an intelligent electronic device in auto-mated substation. The function of MU is to collect multi-channel

An Automatic Test System for Merging Unit and Intelligent Terminal

Abstract. The merging unit (MU) and intelligent terminal are widely used in smart substation system. A design of an automatic test system for MU and intelli-gent terminal is given here which highlight the

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Product Guide SMU615 Substation Merging Unit

1. Description SMU615 is a dedicated substation merging unit intended for measuring current and voltage signals from the instrument transformers and merging them into the standard digital output

The Digital Substation

New technologies like NCITs (non-conventional instrument transformers), for example, are employed in conjunction with “merging units” and process bus communications technology, which allow the

Intelligent merging unit (IMU)

The intelligent merging unit (IMU) combines the standard functionality of a merging unit, working in accordance with the IEC 61850-9-2, with basic protection, control and supervision

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The research and development of an intelligent merging unit based on ...

Merging unit (MU) is an important intelligent electronic device (IED) in digital substation and becomes research emphasis. The function of an MU is to collect multichannel digital signals

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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