



TELEPROTECTION

Overview:

VCL-TP, Teleprotection over IP/MPLS Equipment is an extremely reliable product that offers up to 8, 2-way independent command channels which can be operated selectively, or simultaneously over Ethernet / IP / MPLS-IP and MPLS-TP transmission links.



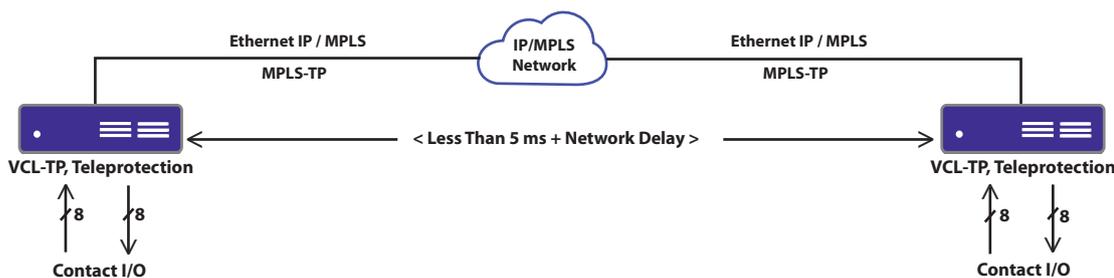
The VCL-TP, Teleprotection over Ethernet/ IP/ MPLS equipment offers both, 10/100BaseT (Electrical) and 100BaseFX (Optical) Ethernet transmission interface options.

VCL-TP, Teleprotection over IP/MPLS equipment may be used independently in a standalone point-to-point application over Ethernet/ IP/ MPLS links, or over an Ethernet over SDH (EoS) network.

Features and Highlights:

- Unrivaled Speed, Security and Reliability which meets and exceeds IEC 60834-1 and applicable sections of IEC 60834-2 standards
- Bi-directional Transmission of 8 command Inputs and 8 command outputs
- User programmable for Direct Tripping, Permissive Tripping and Blocking Protection Schemes (Distance Teleprotection)
- Less than 2ms command transfer time
- Less than 6ms back-to-back operating time over IP/MPLS Interface
- NTP and IEEE-1588v2 Time synchronization options.
- 8 Channel "Trip Counter Display"
- SNMPv2 management protocol for monitoring
- Available in 48V DC, 110V DC, 220V DC, 250V DC, 110V AC and 220V AC powered configurations.
- Input / Output Commands Combination Options:

- Off** When all 8 inputs are independent
- And** When two adjacent inputs are used logically, "and-ed"
- Or** When two adjacent inputs are used logically, "or-ed"



**Typical application
Teleprotection over
IP/MPLS Network**

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