

DM1400 Teleprotection Terminal



Reliability, Security & Dependability

The DM1400 is Dewar's new Teleprotection system. It provides a secure and dependable communication channel for the operation of protection systems that enable rapid and selective detection and isolation of faults in the electrical power distribution system.

The DM1400 communicates with the remote unit using either IEEE C37.94 or G703 protocol and can be used in a point-to-point configuration or via a multiplexer.

The unit provides four opto-isolated Inputs, four opto-isolated solid-state relay outputs. There are eight alarm relays that can be programmed to notify the user of the system alarm status.

The DM1400 can be ordered in various configurations depending on customer requirements.

Features and Benefits

Saves you space in your substation:

Slimline 1U Terminal & only weighs 3kgs.

Super Fast Speed:

<3ms back-to-back speed

Customizable:

IEEE C37.94 or G703 protocol can be used point-to-point or via a multiplexer

Configuration:

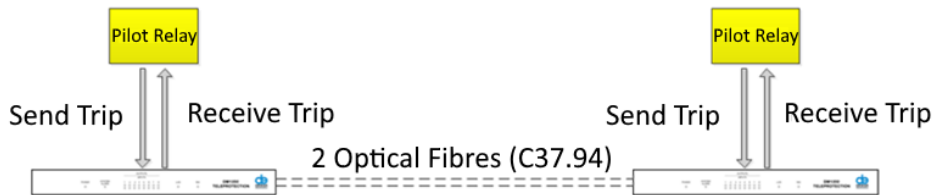
Simple to use GUI via USB or LAN interface

Extremely Cost Effective:

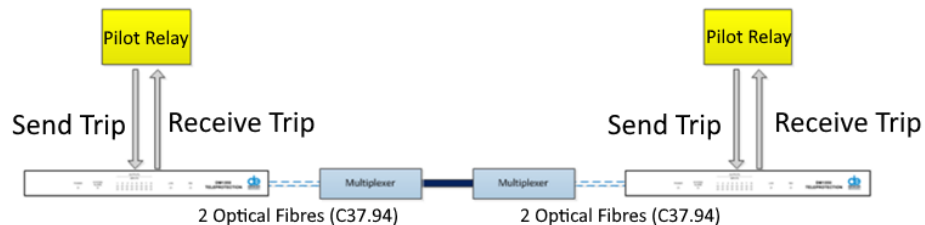
Not only does the DM1400 save you space but it also saves you money



Designed and manufactured in Australia



Typical Stand-alone Point-to-Point Application



Typical Application With Multiplexer

General Specifications

Capacity:

Four independent input & output commands

Redundant Power Supply:

48 Volt DC (20 -60VDC)
110 Volt DC (66-160VDC)
240 Volt AC/DC (90-264VAC/DC)

Command Trip Inputs:

Opto-isolated Inputs.
Nominal voltages of 48, 110, or 240 Volts DC
(±20% Nominal Voltage)
Other voltages may be available on request
User selectable at order placement

Command Trip Outputs:

Four Solid State relay contacts
Max Switching voltage 300VDC
Rated Current 5ADC
Back-to-Back 'Highspeed' setting <3ms
Output Monitoring

Alarm Relays:

Eight Programmable Relays. All alarm & events monitored and logged. Real-time monitoring.

C37.94 OR G703 Compliant Communication:

C37.94- MM850nm, MM1310nm & SM1310nm

G703—4 Wire co-directional

Ambient Conditions:

Built to IEC834-1
Operating Temp -10°C to +70°C
Humidity 5 to 95% non-condensing

Operating Time:

Back-to-Back <3ms

Size & Weight:

19 inch wide, 1U high rack mounting
3kgs

Dimension:

Height 43.8mm, Width 440.5mm, Depth 241mm (without cable holder)
Height 43.8mm, Width 440.5mm, Depth 316mm (With Cable Holder)

Mounting:

Flush or semi projection mounting