

dataTaker

... keeping an eye on reality

Channel Expansion Module



Channel Expansion for dataTakers

- Full dataTaker Universal Channel Support
- Robust Relay Multiplexer
- Low Cost Channel Expansion
- Easy to Set-Up
- For all DT500 or DT600 Series dataTakers
- Internal Reference Temperature Sensor
- Powered from Host Unit
- 3 Year Warranty

Specifications

Increased Channel Capacity

You can easily increase the number of analog and digital channels that your dataTaker has by using the Channel Expansion Module (CEM).

Designed to suit the DT500, DT505, DT515, DT600, DT605, DT615 dataTakers, each CEM will add 10 differential or 30 single ended analogue voltage channels, or 10 resistance or RTD channels, or 10 current or 4–20mA loop channels, in any combination.

The analog input channels use relay multiplexing, providing voltage measurement of up to $\pm 100V$ when used in conjunction with relay multiplexed dataTakers.

The CEM also has 20 digital input channels, as well as 5 open collector 200mA/30Vdc digital outputs and 5 voltage free 110Vac/5A contacts.

Easy Setup

Up to 2 CEMs can be connected to a dataTaker. You simply plug them into the dataTaker using a ribbon cable. They are powered from the dataTaker through this cable so you don't have to worry about connecting an extra power supply. And dataTaker firmware has an intelligent CEM controller, so reconfiguration of the dataTaker isn't necessary.

The CEM has an internal temperature sensor which can be used for cold junction compensation when using thermocouples, and there is a floating single ended reference input which allows a remote common connection to be used when making voltage measurement. In addition, a terminal is provided for external switched sensor excitation.

Solid Construction

Construction of the CEM is similar to a dataTaker, with the same screw terminals and a sturdy powder coated steel case - length 270mm, width 110mm, height 50mm and weight 1.0kg. Mounting holes in the end plates of the CEM allow mounting to a plate or case using fixing bolts, and threaded studs have been provided on the top lid to allow for easy stacking. The operating temperature range is $-20^{\circ}C$ to $+70^{\circ}C$, and maximum humidity 85%RH.

Warranty

The dataTaker range is covered by a 3 year warranty on workmanship and parts. For further information on the dataTaker range, or for useful downloads, visit the dataTaker web site at www.dataTaker.com or contact your nearest dataTaker office or dealer.



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Certified to ISO9002

TOTAL QUALITY COMMITMENT

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