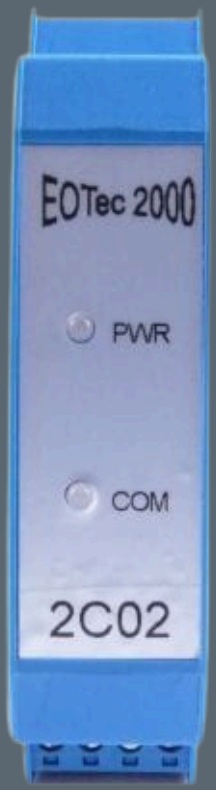
2C14 - Modicon remote I/O



Overview

Electrical interface modules (EIM) connect the copper signal to digital signal for transmission over fiber via the optical interface module (OIM). The basic modem configuration consists of a power supply, an EIM, and an OIM. Additional modules may be added to configure daisy-chain, star, and self-healing ring (SHR) topologies.

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Technical specification

Feature	Description
Protocols and extra features	Modicon remote I/O
Communcations data rate	1.5M Baud
Copper cable connector	F-type
Copper cable end termination	Internal 75 Ohms
Maximum devices and copper cable length supported per module	Per Modicon remote I/O specifications
Ambient conditions	-40 to 85°C operational, 0-95% relative humidity non-condensing
Power requirements (bus)	9Vdc @ 200mA maximum per module
Power indicator	Green LED
Communications activity indicator	Amber LED
Certfiications	CE Marked, Class I, Division 2, Groups A, B, C & D (on selected models), US and Canada
Weight	9oz
Accessories	Power supply 2A06, 2A16, 2A08, 2A18
Installation instructions	Shipped with product or available on request

TECHNICAL NOTICE: The Model 2C14 product releases prior to July 1, 2011 when used in conjunction with newer releases of Schneider Electric product 140CPA93100 SYMPTOM: Communications errors or no communications with all or some remote drops. ISSUE: The Schneider Electric Model 140CRA93100 Modicon Remote I/O Communications Module with the following version identifiers PV_09, SV_2.0, RL_01, DOM_1102 has exhibited communications issues with the Model 2C14 having serial numbers prior to 0137979. Up until this Schneider Electric release, there were no issues with the communications that were not resolvable. However, with this latest Schneider Electric release, issues have been noted that were unresolvable. A new version of the Model 2C14 (SN 0137979 and above) was released on or about July 15, 2011 primarily to improve the coaxial loss budget from 20dB to 35dB. By coincidence, this new 2C14 version is also totally compatible with all Schneider Electric 140CRA93100 releases, including the one outlined above. As noted, the issue was instigated by a revision to the Schneider Electric product and as such is not a warranty related issue with the Model 2C14 product. WORK-AROUND: The latest version of the 2C14 is backwards compatible with the older versions of the product and can be combined within the same network system should a newer version of the Model 140CRA93100 be added to the system.

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About Ultra Energy

Organizations working with nuclear and industrial technologies must deliver reliable production at the same time as safeguarding people, the environment and infrastructure. We develop and manufacture measurement and control solutions that give our customers complete, long-term control over systems operating in harsh environments, helping them operate safely and increasing the value derived from their investments over their total lifespan.

Part of Ultra Group, a global electronics company, Ultra Energy has worked with nuclear and industrial customers for over 60 years. We support customers across the world from facilities located in the US and UK. Our solutions are embedded in strategic national infrastructure and our people are active partners in customer programs that are focused on delivering advanced future nuclear and industrial capabilities.

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