

Using the 20-750SC-8U Universal Analog Option Card with RTD Input on PowerFlex 753/755 drives

Question

Can you use the 20-750SC-8U or multiple cards for 6 or more RTD's feedback?

Answer

The PowerFlex 750-Series drives do not provide an RTD input as part of standard I/O.

An RTD input is available with the optional 8-Channel Universal Analog Input Module produced by Rockwell Automation's Encompass Partner Spectrum Controls.

You will be limited to the number of datalinks per card. See following example with 2 Spectrum IO modules on a PowerFlex 755 drive.

Spectrum 20-750SC-8U IO Module 1

Host Parameters - Analog I/O - PowerFlex_755

ID	△	Name	Value	←	Units
1		DL From Net 01	Port 0: UserData Real 00	...	
2		DL From Net 02	Disabled	...	
3		DL From Net 03	Port 0: UserData Real 01	...	
4		DL From Net 04	Disabled	...	
5		DL From Net 05	Port 0: UserData Real 02	...	
6		DL From Net 06	Disabled	...	
7		DL From Net 07	Port 0: UserData Real 03	...	
8		DL From Net 08	Port 0: UserData Int 00	...	
9		DL From Net 09	Port 0: UserData Int 01	...	

Spectrum 20-750SC-8U IO Module 2

Host Parameters - Analog I/O - PowerFlex_755

ID	△	Name	Value	←	Units	Internal Value	←	Min
1		DL From Net 01	Port 0: UserData Real 04	...		1804	...	
2		DL From Net 02	Disabled	...		0	...	
3		DL From Net 03	Port 0: UserData Real 05	...		1805	...	
4		DL From Net 04	Disabled	...		0	...	
5		DL From Net 05	Port 0: UserData Real 06	...		1806	...	
6		DL From Net 06	Disabled	...		0	...	
7		DL From Net 07	Port 0: UserData Real 07	...		1807	...	
8		DL From Net 08	Port 0: UserData Int 02	...		1702	...	
9		DL From Net 09	Port 0: UserData Int 03	...		1703	...	
10		DL From Net 10	Disabled	...		0	...	

PowerFlex 755 Embedded Ethernet Module

Device Parameters - EtherNet/IP - PowerFlex_755

ID	Name	Value	Units	Internal Value	Min
17	DL To Net 01	Port 0: UserData Real 00		1800	
18	DL To Net 02	Port 0: UserData Real 01		1801	
19	DL To Net 03	Port 0: UserData Real 02		1802	
20	DL To Net 04	Port 0: UserData Real 03		1803	
21	DL To Net 05	Port 0: UserData Real 04		1804	
22	DL To Net 06	Port 0: UserData Real 05		1805	
23	DL To Net 07	Port 0: UserData Real 06		1806	
24	DL To Net 08	Port 0: UserData Real 07		1807	
25	DL To Net 09	Disabled		0	
26	DL To Net 10	Disabled		0	
27	DL To Net 11	Disabled		0	
28	DL To Net 12	Disabled		0	
29	DL To Net 13	Port 0: UserData Int 00		1700	
30	DL To Net 14	Port 0: UserData Int 01		1701	
31	DL To Net 15	Port 0: UserData Int 02		1702	
32	DL To Net 16	Port 0: UserData Int 03		1703	
33	Port Number		13		13

Additional information for the 20-750SC-8U option module can be found in the user manual Publication number 0300287-05 on the product webpage.