

Using the 20-750sc-8U Card with RTD Input on PowerFlex 753/755 Drives

This note explains how to use the 20-750sc-8U or multiple cards with up to six or more RTDs.

Environment

- 20F PowerFlex 753
- 20G PowerFlex 755
- 20F PowerFlex 755G.

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 Technology Partner, Spectrum Controls, Inc.

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

Spectrum 20-750SC-8U I/O 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 I/O 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 on the product webpage.