

## FACTS Analog Module Broken Transmitter / Burnout Indication with PLC CPUs

### 05/06 Analog and Temperature Inputs

Part Number	Broken Transmitter / Burnout Detection	Indication with PLC CPU (Manual References are D0-OPTIONS-M 6 <sup>th</sup> Ed Rev A)
F0-04AD-1	Yes Threshold is ~3.4mA	SP Bits (Page 3-14)  Counts go to Zero
F0-04AD-2	No (N/A for Voltage)	
F0-2AD2DA-2	No (N/A for Voltage)	
F0-4AD2DA-1	Not in 4-20mA Mode	Set jumper for 0-20mA and monitor for counts less than 819
F0-4AD2DA-2	No (N/A for Voltage)	
F0-04RTD	Yes	SP Bits (Page 8-20)  Counts can go to zero or full-scale during burnout indication depending on E Register Configuration (Page 8-10)
F0-04THM	Yes for Temperature N/A for Voltage Ranges	SP Bits (Page 9-21)  Burnout detection can be enabled/disabled with E Register Configuration (Page 9-11)  Counts can go to zero or full-scale during burnout indication depending on F Register Configuration (Page 9-11)
F0-08ADH-1	Not Directly	Monitor for counts less than ~13107 (4mA@16bit resolution)
F0-08ADH-2	No (NA for Voltage)	N/A

### 205 Analog and Temperature Inputs with PLC CPU

Part Number	Broken Transmitter / Burnout Detection	Indication with PLC CPU (Pointer Method) (Manual References are D2-ANLG-M 7 <sup>th</sup> Ed)
F2-04AD-1 (L)	No	
F2-04AD-2 (L)	No (N/A for Voltage)	
F2-08AD-1	Yes Threshold is ~2.8mA	Channel with broken transmitter reads 8000b If no 24VDC or TB removed all channels read 8000h (Page 4-15)
F2-08AD-2	No (N/A for Voltage)	
F2-4AD2DA	No	
F2-8AD4DA-1	Yes Threshold is ~2.0mA	Broken transmitter bits are mapped to Xs in high byte of second input word. One X for each channel broken transmitter indication. (Page 15-12)  Example: If starting module address is X0 then X30-X37 are broken transmitter bits. X30=Ch1.
F2-8AD4DA-2	No (N/A for Voltage)	
F2-04RTD	Yes	Channel with broken transmitter reads 8000h Note: Need ladder example like page 4-15
F2-04THM	Yes for Temperature N/A for Voltage Ranges	Broken transmitter bits are mapped to Xs in high byte of second input word. One X for each channel broken transmitter indication. (Page 7-18)  Channel with broken transmitter reads Zero If no 24VDC all channels read Zero  Example: If starting module address is X0 then X30-X33 are broken transmitter bits. X30=Ch1.

### 405 Analog and Temperature Inputs

Part Number	Broken Transmitter / Burnout Detection	Indication with PLC CPU (Manual References are D4-ANLG-M)
F4-04AD	Yes in 4-20mA Mode Threshold is ~1.25mA	Depends on jumper selection for 16 bit/32 bit  16-Bit Mode – One bit multiplexed (Page 3-15)  32—Bit Mode – One bit per channel (Page 3-18)
F4-04ADS	Not in 4-20mA Mode	Set jumper for 0-20mA and monitor for counts less than 819
F4-08AD	Not in 4-20mA Mode	Set jumper for 0-20mA and monitor for counts less than 819
F4-16AD-1	Not in 4-20mA Mode	Set jumper for 0-20mA and monitor for counts less than 819
F4-16AD-2	No (N/A for Voltage)	
F4-08RTD	Yes	One bit per Channel (Page 9-13)
F4-08THM	Yes for THM Modes N/A for mV Mode	One bit per Channel (Page 10-15)
F4-08THM-n	Yes for THM Module Types N/A for mV Module	Channel with Broken Transmitter reads 4095 (Page 8-2)