

Analog Output 16-Point Processor/FTA

MU-PAOY22

Parameter	Specification
FTA Models	MU-TAOY22, TAOY23, TAOY52, TAOY53
Output Type	4-20 mA
Output Channels	16
Output Ripple	100 mV peak-to-peak at power line frequency, across 250 Ω load
Output Temperature Stability	$\pm 0.02\%$ Full Scale/ $^{\circ}\text{C}$
Output Readback Accuracy	$\pm 4\%$
Humidity	$\pm 0.1\%$ full scale (50% RH $\pm 40\%$ RH)
Output Current Linearity	$\pm 0.05\%$ nominal
Resolution	$\pm 0.05\%$
Calibrated Accuracy	$\pm 0.35\%$ (25 $^{\circ}\text{C}$) including linearity
Directly Settable Output Current Range	0 mA, 2.9 mA to 21.1 mA
Absolute Max Current Output for AO Value Digital Input Code	24 mA
Maximum Resistive Load (24 V supply = 20 V)	750 Ω @ 20 mA
Maximum Output Compliant Voltage (24 V supply = 20 V)	15 V
Output Settling Time (digital input code to 98% of final output value)	4 ms
Surge Withstand Capability	ANSI/IEEE C37.90.1-1978

Analog Output 16-Point Processor Redundancy Option MU-TAOY22, TAOY23, TAOY52, TAOY53

Parameter	Specification
Gap (0 mA) of Output to Field on Failover	20 ms maximum
Switching Hardware Diagnostic Frequency	Once per minute

Digital Input Processor and Digital Input Sequence of Events Processor MU-PDIX02/MU-PDIS12

FTAs with Removable Plug-In Isolators			
Parameter	Specification		
	24 Vdc FTA	120 Vac FTA 125 Vdc FTA	240 Vac FTA
FTA Models	MU-TDID12, TDID52	MU-TDIA12, TDIA52	MU-TDIA22, TDIA62
Input Channels	32	32	32
Accumulated Input Frequency	dc - 15 Hz	NA	NA
Galvanic Isolation (field to PM/APM/HPM)	1500 Vac rms or ± 1500 Vdc ⁽²⁾	1500 Vac rms or ± 1500 Vdc	1500 Vac rms or ± 1500 Vdc
Isolation Technique	Optical	Optical	Optical
Digital Input Pwr. Range ⁽¹⁾	20-30 Vdc	90-132 Vac rms	180-264 Vac rms
Sense Current (ON condition)	4.5 mA minimum	3.5 mA minimum	2.2 mA minimum
Sense Current (OFF condition)	2.8 mA maximum	1.5 mA maximum	1.0 mA maximum
Pick Up Voltage (ON condition)	20 Vdc minimum ⁽³⁾	90 Vac rms minimum ⁽⁴⁾	180 Vac rms minimum ⁽⁴⁾
Drop Out Voltage (OFF condition)	10 Vdc maximum ⁽³⁾	25 Vac rms maximum ⁽⁴⁾	50 Vac rms maximum ⁽⁴⁾
Absolute Delay Across Input Filter and Isolation (Bounceless Input to PM/APM/HPM logic level change)	2.0 ms maximum	25 ms maximum	25 ms maximum
Frequency Range	dc	47-63 Hz	47-63 Hz
Surge withstand capability	ANSI/IEEE C37.90.1-1978	ANSI/IEEE C37.90.1-1978	ANSI/IEEE C37.90.1-1978
<p>(1) These dc voltage limits include an ac component that has a peak value of 5% of the nominal dc range value.</p> <p>(2) Not applicable if system power is used to power field inputs.</p> <p>(3) This voltage present from '-' terminal to ground.</p> <p>(4) The voltage present across input terminals.</p>			

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Model Numbers

Description	Uncoated Model Number	Coated Model Number (see note)
I/O Processors		
High Level Analog Input Processor (16 Inputs)	n/a	MC-PAIH03
Smart Transmitter Interface (Multivariable) Processor (16 Inputs)	MU-PSTX03	MC-PSTX03
Serial Device Interface Processor (16 Points/Port)	MU-PSDX02	MC-PSDX02
Serial Interface Processor (16 Points/Port)	MU-PSIM11	MC-PSIM11
Low Level Analog Input Processor (8 Inputs)	MU-PAIL02	MC-PAIL02
Low Level Analog Input Multiplexer Processor (32 Inputs)	MU-PLAM02	MC-PLAM02
Remote Hardened Multiplexer IOP (32-Points)	MU-PRHM01	MC-PRHM01
Pulse Input Processor (8 Inputs)	MU-PPIX02	MC-PPIX02
Analog Output Processor (8 Outputs)	n/a	MC-PAOX03
Analog Output 16 Processor (16 Outputs)	n/a	MC-PAOY22
Digital Input Processor (32 Inputs)	MU-PDIX02	MC-PDIX02
Digital Input Processor for Sequence of Events (32 Inputs)	MU-PDIS12	MC-PDIS12
Digital Input 24 Vdc Processor (32 Inputs)	MU-PDIY22	MC-PDIY22
Digital Output Processor (16 Outputs)	MU-PDOX02	MC-PDOX02
Digital Output 32 Processor (32 Outputs)	MU-PDOY22	MC-PDOY22
Blank Filler Plate for I/O Slot	MU-PFPX01	n/a
I/O Link Extender Pair–Main Location	MU-IOLM02	MC-IOLM02
I/O Link Extender Pair–Remote Location	MU-IOLX02	MC-IOLX02
Long Distance I/O Link Extender Pair	MU-ILDX03	MC-ILDX03
I/O Link Extender Shroud (EC)	MU-ILES01	n/a
NOTE: MC model numbers indicate conformally coated boards. All IOPs are available conformally coated (MC models).		

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