Digital Output 32-Point Processor (continued) **MU-PDOY22**

120/240 Vac Relay FTA	
Parameter	**Specification**
FTA Model Numbers	**MU-TDOY23, MU-TDOY63**
Output Channels	32 (16 per FTA) 16 isolated Form A (SPST/NO) or Form B (SPST/NC) contacts (jumper selectable per output)
Contact Type	Gold-clad silver nickel
Maximum Load Voltage	250 Vac (RMS)/125 Vdc
Maximum Steady State Load Current per Output	Current Voltage 3 A 250 Vac(resistive) 3 A 125 Vac (resistive) 3 A 30 Vdc (resistive) 1 A 48 Vdc (resistive) 0.4 A 125 Vdc (resistive) 2 A 250 Vac (inductive = 0.4 power factor) 2 A 125 Vac (inductive = 0.4 power factor) 1 A 30 Vac (inductive L/R = 100 ms) 0.3 A 48 Vac (inductive L/R = 100 ms) 0.1 A 125 Vac (inductive L/R = 100 ms)
Minimum Load Voltage	5 Vdc
Minimum Load Current	10 mA
Isolation	1500 Vac rms or ±1500 Vdc Channel-to-channel, and channel-to-PM/APM/HPM common
Turn-On Time	10 ms maximum
Turn-Off Time	10 ms maximum
Maximum Repetition Rate	
Contact Life	Operations % of Max Load 10,000,000 0 (Mechanical Life) 200,000 @ 3 A (100%)
FTA +24 Vdc Current	12.5 mA for each energized relay (coil resistance = 2 KΩ)
Surge Absorber for Coil	120Ω + 0.03 μF for each channel
Serviceability	No fuse for FTA
Surge withstand capability	ANSI/IEEE C37.90.1-1978
NOTE: One FTA supports up to 16 circuits. When 17-32 circuits are used, 2 FTAs are required. Bridge cable MU-KBFT01 or MU-KBFT02 is required to connect the two FTAs.	

IOP / FTA Compatibility Matrix (continued)

IOP Model Number	FTA Model Number	Description	Red	CE Mark	Term Type(6)	Circuits	Size(1)
MU-PDOX02 (cont'd)	MU-GDOL12	GI/IS - DO w/ line fault dect.(4023)		√	C(3)	16	B
	MU-GDOL82	GI/IS - DO w/ line fault dect.(4023)		√	CP(3)	16	B
	MU-GDOD12	GI/IS - DO (4021)		√	C(3)	16	B
	MU-GDOD82	GI/IS - DO (4021)		√	CP(3)	16	B
	MU-GLFD02	GI/IS DO Combiner Panel		√	N/A	32	A
MU-PDOY22		**Digital Output (32 Outputs)**	√	√		32	
	MU-TDOY22	Digital Output 32, 24 Vdc	√	√	C	32	B
	MU-TDOY62	Digital Output 32, 24 Vdc	√	√	S	32	B
	MU-TDOY23	Digital Output 32, Relay(4)	√	√	C	16	B
	MU-TDOY63	Digital Output 32, Relay(4)	√	√	S	16	B
		Misc. / Multiple Use FTAs					
	MU-TLPA02	LLMUX, SI, SDI Power Adapter		√	C	2	A
	MU-TDPR02	DI Power Distribution FTA		√	S	12	A
	MU-GPRD02	GI/IS Power Distribution FTA		√	N/A	12	A
	MU-GMAR52	GI/IS — Marshalling Panel		√	S	16	B

(1) Length: A = 15.24 cm/6.0 in.
B = 30.73 cm/12.1 in.
C = 46.228 cm/18.2 in.

(1) Width: All FTAs except GI/IS FTAs = 12.065 cm/4.75 in.
All GI/IS FTAs = 12.446 cm/4.90 in.
MU/MC-TAIL03 = 13.335 cm/5.25 in.

(2) Requires Power Adapter FTA.

(3) Terminals are on top of the GI/IS modules.

(4) One FTA supports up to 16 circuits. When 17-32 circuits are used, 2 FTAs are required. Bridge cable MU-KBFT01 or MU-KBFT02 is required to connect the two FTAs.

(5) Number of Circuits denotes number of logical connections.

(6) For nongalvanically isolated FTAs, the terminal connector types are compression (C), nonremovable screw (S), and removable screw (RS). For galvanic isolation type FTAs, the terminal connector types are compression (C), and crimp pin (CP). The Marshalling Panel has nonremovable screw (S) terminals.

(7) The MC-GRMT01 is a remotely mountable Field Termination for Thermocouple inputs. Two of these FTAs can be connected to a single Power Adapter (MU-GRPA01 or MU-TRPA01) depending on the hazardous environment. The Power Adapter is, in turn, connected to the IOP (MU-PRHM01).

Model Numbers (continued)

FTA I/O Cables (Telephone Connector* Version)		
FTA I/O Cable (5 m)		MU-KFTA05
FTA I/O Cable (10 m)		MU-KFTA10
FTA I/O Cable (15 m)		MU-KFTA15
FTA I/O Cable (20 m)		MU-KFTA20
FTA I/O Cable (25 m)		MU-KFTA25
FTA I/O Cable (30 m)		MU-KFTA30
FTA I/O Cable (35 m)		MU-KFTA35
FTA I/O Cable (40 m)		MU-KFTA40
FTA I/O Cable (45 m)		MU-KFTA45
FTA I/O Cable (50 m)		MU-KFTA50
Shielded FTA I/O Cables (lengths, xx, same as MU-KFTAxx)		MU-KFTSxx
FTA I/O Bridge Cable, 0.5 meter	To combine two 16 pt. MU-TDOY63 relay	MU-KBFT01
FTA I/O Bridge Cable, 2.0 meter	FTAs for 32-pt. MU-PDOY22 DO IOP	MU-KBFT02
LLAI MUX, Serial Device Interface, or Serial I/F Twisted Pair Cables		
Twisted Pair Cable with Shield (Local Cabinet Use)		MU-KLAM00
Four-Conductor Cable with Shield - 18 gauge (76 m/250 ft.)		MU-KLX076
Four-Conductor Cable with Shield- 18 gauge (152 m/500 ft.)		MU-KLX152
Four-Conductor Cable with Shield - 18 gauge (305 m/1000 ft.)		MU-KLX305
Four-Conductor Outdoor Cable with Armor and Shield - 12 gauge (305 m/1000 ft.)		MU-KLO305
LLMUX (TC) Remote CJR Cable (45 m/150 ft.)		MU-KRCJ00
* For DIN-style FTAs, Cables, and File Options, see the *Site Planning* manual.		