



# TECHNICAL INFORMATION

**TITLE: FPU-16 SET-UP/DISPLAY SHEET**

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Application: \_\_\_\_\_  
 Phase Conductor Size \_\_\_\_\_  
 Rated Current \_\_\_\_\_  
 Allowed O/C Time \_\_\_\_\_ s at \_\_\_\_\_ % current

MODE	1st LEVEL	2nd LEVEL (press Enter)
MODE 0 I <sup>2</sup> t Limit (s @ 6 x I <sub>n</sub> )		
MODE 1 Short Time O/C (x I <sub>p</sub> )		
MODE 2 Instantaneous O/C (x I <sub>p</sub> )		
MODE 3 Current Unbalance (%)		
MODE 4 Earth Fault (%)		
MODE 5 Options		
MODE 6 EF-CT Primary (I <sub>e</sub> )		
MODE 7 Phase CT Primary (I <sub>p</sub> )		
MODE 8 Rated Current (I <sub>n</sub> )		
MODE 9 Percent Unbalance		
MODE A Phase A Current (A)		
MODE b Phase B Current (A)		
MODE C Phase C Current (A)		
MODE d Percent I <sup>2</sup> t		
MODE E Earth Leakage		
MODE F Operation Counter		

### PHASE-CT SELECTION

CT-PRIMARY RATING should be selected so that rated current is approximately 70% of the primary rating.

Rated current (I<sub>a</sub>) setting range is 0.45 x 0.93 x PHASE-CT-PRIMARTY RATING.

### GROUND-FAULT-CT SELECTION

See [T.I. 11.1 Ground-Fault-CT Selection Flowchart](#).

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## MODE 5 — OPTIONS

MODE      VALUE

Default Value . . . . . 5000

This indicates:

Short-Time-Trip Time . . . . . 3 cycles

Earth-Fault-Trip Time . . . . . 3 cycles

I<sup>2</sup>t Immediate Reset . . . . . OFF

Alarm Latch . . . . . OFF

Autoreset (Mode 0) . . . . . OFF

VALUE DIGIT 2		SHORT-TIME-TRIP TIME			EARTH-FAULT-TRIP TIME			DEFAULT	VALUE DIGIT 3					
0	1	00 = 3 CYCLES	01 = 6 CYCLES	10 = 12 CYCLES	11 = 24 CYCLES	00 = 3 CYCLES	01 = 6 CYCLES		10 = 12 CYCLES	11 = 24 CYCLES	0	SPARE	I <sup>2</sup> t IMMEDIATE RESET 0=OFF 1=ON	ALARM LATCH 0=OFF 1=ON
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	1	0	1	1	1	0	0	0	0	1	0
2	0	0	0	1	1	1	1	1	1	0	0	0	1	0
3	0	0	0	1	1	1	1	1	1	0	0	0	1	1
4	0	0	1	0	0	0	0	0	0	1	1	0	0	0
5	0	0	1	1	0	0	1	1	1	1	1	0	1	1
6	0	0	1	1	1	1	1	1	1	1	1	1	0	0
7	0	0	1	1	1	1	1	1	1	1	1	1	1	1
8	1	0	0	0	0	0	0	0	0	1	0	0	0	0
9	1	0	0	0	0	0	0	0	0	1	0	0	0	1
A	1	0	0	0	0	0	0	0	0	1	0	0	0	1
b	1	0	0	0	0	0	0	0	0	1	0	0	0	1
c	1	0	0	0	0	0	0	0	0	1	0	0	0	1
d	1	0	0	0	0	0	0	0	0	1	0	0	0	1
e	1	0	0	0	0	0	0	0	0	1	0	0	0	1
F	1	0	0	0	0	0	0	0	0	1	0	0	0	1



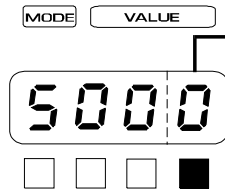
# TECHNICAL INFORMATION

TITLE: FPU-16 SET-UP/DISPLAY SHEET

## MODE 5 — OPTIONS (2nd Level Without Communications Interface)

Default Value . . . . . 5000

This indicates:  
 Trip Relay . . . . . Fail Safe  
 Alarm Relay . . . . . Fail Safe  
 Analog-Output Parameter. . . Current



DEFAULT

	VALUE DIGIT 3	RELAY OPERATING MODE		ANALOG-OUTPUT PARAMETER	FULL SCALE 1.25 x I <sub>n</sub> 100%
		TRIP RELAY	ALARM RELAY		
0	0	0	0	00=CURRENT	I <sub>e</sub>
1	0	0	0	01=I <sub>ct</sub>	
2	0	0	0	00=NO SELECTION	
3	0	0	0	10=NO SELECTION	
4	0	1	1	11=EARTH LEAKAGE	
5	0	1	1		
6	0	1	1		
7	0	1	1		
8	1	0	0		
9	1	0	0		
A	1	0	1		
b	1	0	1		
C	1	1	0		
d	1	1	0		
E	1	1	1		
F	1	1	1		

NOTE:  
 Not applicable to units with RS-485 communications interface. See FPU-16 RS-485 Communications Interface Manuals.

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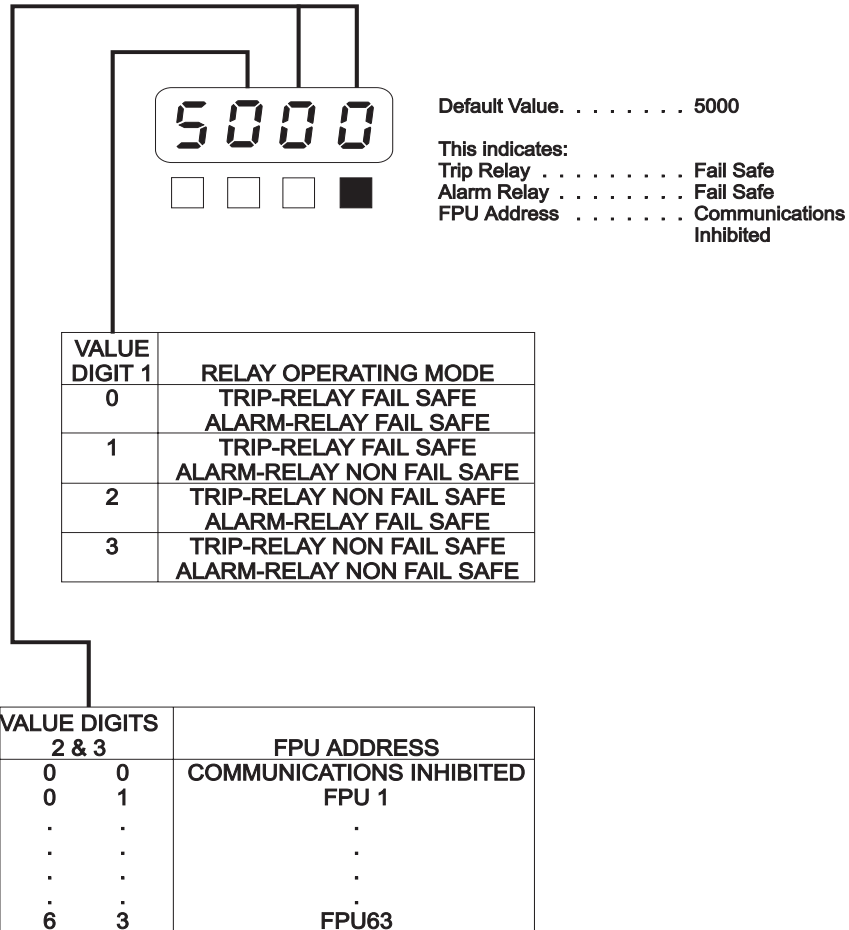


# TECHNICAL INFORMATION

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## MODE 5: OPTIONS

(2nd Level with Communications Interface)



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