

# CC-M

## Fuji Electric Multi-Loop Controller

P D A 3  2  1 -  C   E -  0

NUMBER OF CONTROL LOOPS (*1)	CODE	(\$)PRICE
1 Loop	1	1450
2 Loops	2	1950
4 Loops	4	2700

INPUT SIGNAL	CODE	(\$)PRICE
DC 1-5V/4-20mA DC (*2)	A	N/C
Thermocouple (*3)	C	180
RTD/Pt100 (*3)	D	180

POWER SUPPLY VOLTAGE	CODE	(\$)PRICE
100-240V AC	A	N/C
24V DC	B	N/C

HARD MANUAL BACK-UP UNIT	CODE	(\$)PRICE
None	Y	N/C
1 Loop	A	180
2 Loops	B	295
4 Loops	C	355

COMMUNICATIONS/MEMORY CARD INTERFACE (*4, *5, *6)	CODE	(\$)PRICE
MODBUS		
RS-485 OPTO22 Memory Card Interface		
Without Without Without	Y	N/C
Without Without With	M	85
RS485 Without Without	C	74
RS485 Without With	U	158
RS485 RS485 Without	D	279
RS485 RS485 With	R	355

PROGRAMMING METHOD	CODE	(\$)PRICE
Wafer	1	N/C
Soft PLC Function (ISaGRAF) (*7)	2	60

### Notes:

- (\*1) Number of control loops is the number of 4-20mA 'control' outputs.
- (\*2) For current input, a precision 250Ω shunt resistor is used, one per loop is included. Additional resistors available at \$4.25 each.
- (\*3) Thermocouple or RTD inputs are optional. If more are desired, external transducers should be used.
- (\*4) Communication cable and impedance terminators are optional items.
- (\*5) RS-485 communications uses Modbus protocol. OPTO 22 option does not include modules. These are sold separately. To use OPTO 22 equipment, a brain module, module rack, and at least one module must be purchased.
- (\*6) Memory Card option only records trend data using standard compact-flash type memory cards. Cards up to 32MB can be used and are available as COMPACT FLASH\_MB.
- (\*7) ISaGraf conforms to IEC1131. ISaGRAF programming tool is optional item. Soft PLC and Wafer programming cannot function simultaneously. To change programming method between 'Wafer' and 'Soft PLC', hardware modification is required.
- (\*8) CC-M Loader Cable to be used with software for uploading and downloading programs from the PC to the CC-M.
- (\*9) To use the OPTO 22 functions, customers must purchase at the minimum, a brain, a rack, and an input or output module.

ACCESSORIES	(\$)PRICE
Compact Flash Card 16MB	85
Compact Flash Card 32MB	160
Compact Flash Card Reader: Parallel Port	90
CC-M Loader Software (*8)	N/C
CC-M Loader Cable (Serial Port Connection) (*8)	35
SNAP-B3000-ENET: OPTO 22 BRAIN (*9)	695
SNAP-B8M: OPTO 22 8-Module Rack	94
SNAP-B16M: OPTPO 22 16-Module Rack	161
SNAP-AOA-3: OPTO 22 Single-Channel 4-20mA AO	150
SNAP-AIV: OPTO 22 2-Channel -10 to +10V DC AI	182
SNAP-ODC5SRC: OPTO 22 4-Channel DC Out	
5-60V DC, 5V DC logic source	42
SNAP-ODC5SNK: OPTO 22 4-Channel DC out	
5-60V DC, 5V DC logic source	42
SNAP-IDC5: OPTO 22 4-Channel Input	
10-32V DC, 5V DC logic	42