

DC1000 Digital Controller

Model Selection Guide

(Ref. 51-51-16-86)

Special Features

- **Low Cost PID Digital Controller**
- **Available in four (4) different sizes: 1/16 DIN, 1/8 DIN, 3/16 DIN, 1/4 DIN**
- **Dual Display and Bar Graph**
- **Set Point Programming**
- **Communications, RS232/485 ASCII**

Instructions

- Select the desired Key Number. The arrow to the right marks the selections available.
- Make one selection each from Tables I through III using the column below the proper arrow.
A dot (•) denotes unrestricted availability. A letter denotes restricted availability.

Key Numbers

DC10_ _ _ _ - I II III IV


KEY NUMBER

| | Description | Selection | Availability | | | |
|---------|--|-------------|--------------|---|---|---|
| Size | 48 x 48 mm (DIN) 1/16) | DC101_ _ _ | ↓ | | | |
| | 48 x 96 mm (DIN 1/8) | DC102_ _ _ | | ↓ | | |
| | 72 x 72 mm | DC103_ _ _ | | | ↓ | |
| | 96 x 96 (DIN 1/4) | DC104_ _ _ | | | | ↓ |
| Power | 90-240 Vac Power/CE Mark | DC10_0_ _ | • | • | • | • |
| | 90-240 Vac Power/IP65/CE/cUL Agency Approval | DC10_4_ _ | • | • | • | • |
| | 15-50 VDC Power/IP65/CE/cUL Agency Approval | DC10_5_ _ | • | • | • | • |
| Program | None | DC10_ _ _C_ | • | • | • | • |
| | Program (2 patterns, 8 segments per 1 pattern) | DC10_ _ _P_ | • | • | • | • |
| Input | RTD | DC10_ _ _R | • | • | • | • |
| | TC | DC10_ _ _T | • | • | • | • |
| | Linear | DC10_ _ _L | • | • | • | • |

TABLE I

| | | | | | | |
|-------------------------------|------------------------------------|------|---|---|---|---|
| Output #1 (Control Output) | None | 0_ _ | • | • | • | • |
| | Relay, Contact, SPDT, 3A / 240 VAC | 1_ _ | • | • | • | • |
| | Volt, Voltage Pulse, 20VDC / 20 mA | 2_ _ | • | • | • | • |
| | mA Current, 4-20mA | 3_ _ | • | • | • | • |
| | Open loop motor control | 7_ _ | • | a | b | a |
| | 0-5 V | A_ _ | • | • | • | • |
| | 0-10 V | B_ _ | • | • | • | • |
| | 1-5 V | C_ _ | • | • | • | • |
| | 2-10 V | D_ _ | • | • | • | • |
| | | | | | | |
| Output #2 (Control Output) | None | _0_ | • | • | • | • |
| | Relay, Contact, SPDT, 3A / 240VAC | _1_ | • | • | • | • |
| | Volt, Voltage Pulse, 20VDC / 20mA | _2_ | • | • | • | • |
| | mA Current, 4-20mA | _3_ | • | • | • | • |
| | 0-5V | _A_ | • | • | • | • |
| | 0-10V | _B_ | • | • | • | • |
| | 1-5V | _C_ | • | • | • | • |
| | 2-10V | _D_ | • | • | • | • |
| Alarm | None | _ _0 | • | • | • | • |
| | 1 Alarm Relay | _ _1 | c | • | • | • |
| | 2 Alarm Relays | _ _2 | d | e | h | • |
| | 3 Alarm Relays | _ _3 | | f | i | j |
| | | | | | | |

| | | | Availability | | | |
|-----------------------|---------|-------|--------------|---|---|---|
| DC10 | | | 1 | 2 | 3 | 4 |
| Selection | | | ↓ | ↓ | ↓ | ↓ |
| Transmitter | None | 0 _ _ | • | • | • | • |
| | 4-20 mA | 1 _ _ | • | • | • | • |
| | 0-20 mA | 2 _ _ | • | • | • | • |
| | 0-5 V | A _ _ | • | • | • | • |
| | 0-10 V | B _ _ | • | • | • | • |
| | 1-5 V | C _ _ | • | • | • | • |
| | 2-10 V | D _ _ | • | • | • | • |
| | | | | | | |
| Remote Setpoint Input | None | _ 0 _ | • | • | • | • |
| | 4-20 mA | _ 1 _ | o | k | k | k |
| | 0-20 mA | _ 2 _ | o | k | k | k |
| | 0-5 V | _ A _ | o | k | k | k |
| | 0-10 V | _ B _ | o | k | k | k |
| | 1-5 V | _ C _ | o | k | k | k |
| | 2-10 V | _ D _ | o | k | k | k |
| | | | | | | |
| Communication | None | _ _ 0 | • | • | • | • |
| | RS-232 | _ _ A | m | n | • | • |
| | RS-485 | _ _ B | p | n | • | • |

TABLE III

| | | | | | | |
|---------|---------|---|---|---|---|---|
| Manuals | English | E | • | • | • | • |
| | Chinese | C | • | • | • | • |
| | Korean | K | • | • | • | • |
| | French | F | • | • | • | • |
| | Italian | I | | | | |
| | Spanish | S | | | | |
| | German | G | | | | |
| | | | | | | |

TABLE IV

| | | | | | | |
|-------------------|---------------------------|---|---|---|---|---|
| Extended Warranty | None | 0 | • | • | • | • |
| | Extended Warranty - 1 yr. | 1 | • | • | • | • |
| | Extended Warranty - 2 yr. | 2 | • | • | • | • |

RESTRICTIONS/NOTES

| Restriction Letter | Available Only With | | Not Available With | |
|--------------------|---------------------|----------------------|--------------------|-----------------------------------|
| | Table | Selection | Table | Selection |
| a | I | _ 02 | | |
| b | I | _ 01 | | |
| c | II | _ 00 or 0_B | | |
| d | II | 000 | II | _ _ A |
| | I | _ 0 _ | | |
| | II | _ 00 or 0_0 or 00B | | |
| e | II | 0_0 or 00_ | | |
| | I | _ 0 _ | | |
| | II | 0_ _ or _0_ or _ _0 | | |
| f | I | _ 0 _ | | |
| | II | _ 00 or 0_0 or 00_ | | |
| h | I | _ 0 _ | | |
| | II | _ 0 _ | | |
| i | I | _ 0 _ | | |
| | II | _ 0_ or 0_ _ or _ _0 | | |
| j | I | _ 0 _ | | |
| k | | | | DC102_P_ , DC103_P_ , DC104_P_ |
| m | I | _ 01 | | |
| | II | 00A | | |
| n | I | _ 03 or _ _2 | | |
| | II | 00A or 00B | | |

RESTRICTIONS/NOTES (continued)

| | | | | |
|---|----|------------|--|----------|
| o | I | _01 | | DC101_P_ |
| | II | 0_B | | |
| p | I | _01 | | |
| | II | _0B | | |
| | I | _02 or _11 | | |
| | II | 00B | | |