

# TYPE FT-1 FLEXITEST SWITCH, SWITCH ARRANGEMENT & INTERNAL SCHEMATIC

REF.  
10 POS SW.  
UPPER SECTION  
FRONT VIEW  
(CVR REMOVED)



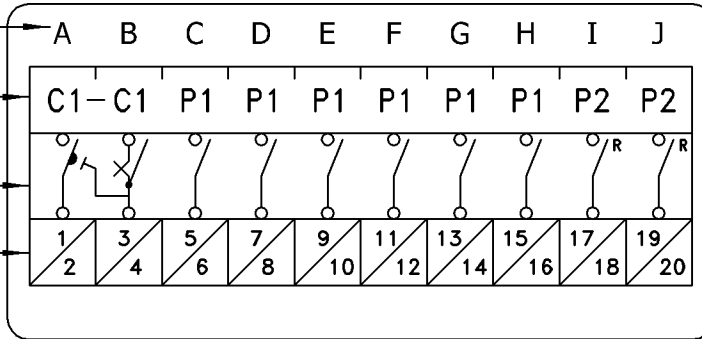
**STYLE No:** 991AC10G01  
**CODE No:** C10  
**CLASS 1E:** NO

POLE  
POSITIONS

SWITCH  
ARRANGEMENT

INTERNAL  
SCHEMATIC

TERMINAL NO.s  
(REAR OF SW)



No. POLES: 10  
No. POTENTIALS: 8  
No. CURRENTS: 2  
TIE BARS: NONE  
DRILL PLAN: 129A500  
INT SCHEMATIC: 991AC10

**ARRANGEMENT: C-C P P P P P P P T T**

Table 1 - Description of Poles for FT Flexitest Switches

| Pole Type              | Pole Designation | Handle Color | Description & Schematic Symbol   |
|------------------------|------------------|--------------|--|
| Potential              | P1               | P            | Black <sup>†</sup><br>Potential, non-shorting blade.                   |
| Current                | C1               | C            | Black <sup>†</sup><br>Current, non-shorting, with test jack and blade. |
| Current ††<br>Shorting | C1-C1            | C-C          | Current shorting (make-before-break), with test jack and blade.        |
|                        | C1-A1            | C-A          | Current shorting (make-before-break), with blade only.                 |
|                        | C1-B0            | C-B          | Current shorting (make-before-break), with stud only.                  |
|                        | C1-D0            | C-D          | Current shorting (make-before-break), with test jack only.             |
|                        | C1-E1            | C-E          | Current shorting (make-before-break), with shorting blade only.        |
|                        | C1-S0            | C-S          | Current shorting (make-before-break), with fixed shorting strap.       |
| Other                  | D0               | D            | None<br>Current test jack, no blade.                                   |
|                        | S0               | S            | None<br>Fixed shorting strap.  |
|                        | X0               | X            | None<br>Empty pole position.   |

† = See Table 2 for complete list of color handles.

†† = Current shorting poles can span up to 5 positions, and can have any combination of color handles (ex: C1-C7-C5-C2-A4).

Table 2 – Handle Colors

| Pole Type | Pole Designation | Handle Color |
|-----------|------------------|--------------|
| Potential | P1               | P            |
|           | P2               | T            |
|           | P3               | H            |
|           | P4               | V            |
|           | P5               | G            |
|           | P6               | Y            |
|           | P7               | Z            |
|           | P8               | W            |
|           | P9               | O            |
| Current   | C1               | C            |
|           | C2               | R            |
|           | C3               | 3            |
|           | C4               | 4            |
|           | C5               | 5            |
|           | C6               | 6            |
|           | C7               | 7            |
|           | C8               | 8            |
|           | C9               | 9            |

**TEST PLUGS:**

**INDIVIDUAL CURRENT CIRCUIT TEST PLUG.**  
STYLE No: 7B4618G04

**SEPARATE SOURCE TEST PLUG (10 POS).**  
STYLE No: 1164046

**IN-SERVICE SERIES TEST PLUG.**  
STYLE No: NONE

|   |                 |  |  |                                    |   |
|---|-----------------|--|--|------------------------------------|---|
| 1 | ECO EM2008-1256 |  | The information contained in this document has to be kept strictly confidential. Any unauthorized use, reproduction, distribution or disclosure to third parties is strictly forbidden.<br>ABB reserves all rights regarding Intellectual Property Rights. | DTR/DATE: R.Novoseletsky 5/15/2009 |   |
|   |                 |  | SOFTWARE TYPE:<br>AUTOCAD 2006   | CHKR/DATE: M.Uriguen 5/15/2009     |   |
|   |                 |  | ENG. REF: MFG DWG: FT1-C10<br>GEN DWG: 1616C24   | APPR/DATE: Tim Masters 5/15/2009   |   |
|   |                 |  | ABB Protective Relays and Switches, Coral Springs Fl, U.S.A.   |                                    | TITLE:<br><b>FT-1 SWITCH<br/>POLE ARRANGEMENT &amp; INT SCH</b> |