

# 725Ex Multifunction Process Calibrator

CSA: IS Class I; Div 1; Groups B-D T = 171 °C AEx ia IIB, T = 171 °C Ta = -10 °C... +55 °C

## Entity Parameters: Input Entity Parameters:

All Inputs: J1-J2, J3-J4, J5-J6, J7-J8: Ui = 30 V, Ii = 100 mA Pi = 750 mW. Li = 0 mH

J1-J2: Ci = 0.01 uF J3-J4: Ci = 0 uF J5-J6: Ci = 0.01 uF

J7-J8: Ci = 0 uF

### **Entity Parameters:**

J1-J2: Uo = 13.7 V, Io = 96.5 mA, Po = 331 mW J3-J4: Uo = 13.6 V, Io = 25.2 mA, Po = 86 mW J5-J6: Uo = 13.7 V, Io = 26 mA, Po = 90 mW J7-J8: Uo = 13.7 V, Io = 76 mA, Po = 261 mW

Terminals	Co (uF)			Lo (mH)		
	Grp B	IIB, Grp C	IIA, Grp D	Grp B	IIB, Grp C	IIA, Grp D
J1-J2	1.0	5.0	18.1	4.0	16.0	32.0
J3-J4	1.0	5.2	18.6	50.0	200.0	400.0
J5-J6	1.0	5.0	18.1	50.0	200.0	400.0
J7-J8	1.0	5.0	18.1	6.1	22.0	45.0

#### NOTES:

- Connections to an Intrinsically Safe Apparatus/Associated Apparatus/Loop must be in acordance with notes 2 thru 5.
- Intrinsic Safety Entity Concept:The Intrinsic Safety Entity Concept allows the interconnection of two or more Approved Intrinsically Safedevices or Associated Apparatus with entity parameters notspecifically examined in combination as a system when:

  Uo or Voc or Vt <= Vmax or Ui

  Io or Isc or It <= Imax or Ii

  Ca or Co >= Ci + Ccable

La or Lo >= Li + Lcable Po <= Pi

- Installation must be in accordance with Article 500 or Article 505 of the NEC (ANSI/NFPA70) and ANSI/ISA RP12.6 orequivalent. Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part I.
- 4. The Fluke 725Ex Multifunction Process Calibrator may only be connected to terminals with compatible entity parameters except as indicated in Note 2 and must not be connected to internal circuitry of Associated Apparatus or Intrinsically Safe Apparatus. Failure to comply with this rule violates approval.
- 5. Applying more than 30 V or 100 mA to the input terminals invalidates the Calibrator's Ex Approval and may damage the unit. Immediately remove the unit from the Ex hazardous area and contact a Fluke Service Center. Control equipment connected to the Associated Apparatus must not use or generate more than 250 Vrms or V dc.
- Examples of a simple apparatus are switch, TC, RTD and connector.
- 7. Refer to the 725Ex Users Manual for additional safety information
- No revision to this drawing is permitted without approval from CSA and SIRA.

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UNCLASSIFIED AREA OR AREAS CLASSIFIED AS ZONE 0 OR CLASS I, DIV 1, GROUPS B, C, D THE CONNECTIONS SHOWN FOR J1:

THE CONNECTIONS SHOWN FOR J1-J6
JACKS CAN BE USED SIMULTANEOUSLY
WITH ANY CONNECTION SHOWN FOR J7-J8
JACKS

⚠ ONLY CONNECTIONS SPECIFIED ON THIS DRAWING ARE ALLOWED. OTHER CONNECTIONS MAY INVALIDATE INTRINSIC SAFETY





















