

## Modeling Code – Promass 83E Coriolis Mass Flowmeter

### EXAMPLE: 1 Inch Promass 83 Transmitter, E Sensor

83E000	010	020	030	040	050	060	070	080	090	100
83E25	A	AAS	A	9	N	1	B	A	A	M

### 83E Promass 83E Coriolis Mass Flowmeter

- C 0.1% 5-point, 0.0005g/cc
- G 0.1% 5-point, 0.0005g/cc, traceable ISO-IEC17025

### 000 Nominal Diameters:

- 08 DN8 3/8" full scale max. 2.0 t/h / 2.2 tons/h
- 15 DN15 1/2" full scale max. 6.5 t/h / 7.2 tons/h
- 25 DN25 1" full scale max. 18 t/h / 19.8 tons/h
- 40 DN40 1 1/2" full scale max. 45 t/h / 49.6 tons/h
- 50 DN50 2" full scale max. 70 t/h / 77.2 tons/h
- 80 DN80 3" full scale max. 180 t/h / 198 tons/h

### 050 Approval:

- N/O 1XP FM Cl.I Div. 1/CSA Cl.I Div. 1, ABCD+. Zone 1  
*Note: † Use N for meters 2" or smaller. Use O for 3" meters.*

### 010 Measuring Tube Material:

- 9 Special version, to be specified
- A Stainless Steel
- C Stainless Steel, mat. certificate (wetted parts)
- P Stainless Steel, PED Cat. III
- R Stainless Steel, PED Cat. III, mat. certificate

### 060 Housing:

- 1 Compact IP67 NEMA4X, Aluminum, -40°C/°F T-amb.
- 7 Remote, field IP67 NEMA4X, -40°C/°F T-amb. + 20m/65ft cable
- 8 Remote, field IP67 NEMA4X, Harsh Environment, -40°C/°F T-amb. + 20m/65ft cable
- 9 Special version, to be specified
- A Compact IP67 NEMA4X, Aluminum
- E Remote, field IP67 NEMA4X + 10m/30ft cable
- F Remote, field IP67 NEMA4X + 20m/65ft cable

### 020 Process Connection:

- 999 Special version, to be specified
- AAS Cl. 150, 316L/1.4404, flange ANSI B16.5
- ABS Cl. 300, 316L/1.4404, flange ANSI B16.5
- ACS Cl. 600, 316L/1.4404, flange ANSI B16.5

### 070 Cable Entry:

- 9 Special version, to be specified
- B Thread NPT 1/2

### 030 Additional Test, Certificate:

- 5 CRN approval
- 6 CRN approval + pressure test (tube)
- 9 Special version, to be specified
- A Basic version
- B Pressure test (tube)
- C Cleaned from oil + grease (wetted parts)
- D Cleaned from oil + grease (wetted parts) + pressure test (tube)
- S Marine certificate
- T Marine certificate + pressure test (tube)

### 080 Power Supply; Display:

- 7 "85-260VAC; WEA, w/o display, Remote configuration, WEA = language DE+EN+FR+IT+ES+PT+NL"
- 8 "20-55VAC / 16-62VDC; WEA, w/o display, Remote configuration, WEA = language DE+EN+FR+IT+ES+PT+NL"
- 9 Special version, to be specified
- A "85-260VAC; WEA, 4-line + Touch control WEA = language DE+EN+FR+IT+ES+PT+NL"
- B "20-55VAC / 16-62VDC; WEA, 4-line + Touch control, WEA = language DE+EN+FR+IT+ES+PT+NL"
- C 85-260VAC; SEA, 4-line + Touch control, SEA = language JA+ID+EN
- D 20-55VAC / 16-62VDC; SEA, 4-line + Touch control, SEA = language JA+ID+EN

### 040 Calibration Massflow; Density:

- 9 Special version, to be specified
- A 0.1%, 0.0005g/cc

- E 85-260VAC; EES, 4-line + Touch control,  
EES = language SV+FI+NO+RU+PL+CS+EN
- F "20-55VAC / 16-62VDC; EES, 4-line + Touch  
control,  
EES = language SV+FI+NO+RU+PL+CS+EN"
- G 85-260VAC; CN, 4-line + Touch control,  
CN = language ZH + EN
- H 20-55VAC / 16-62VDC; CN, 4-line + Touch  
control,  
CN = language ZH + EN

**090 Adjustment; Software Feature:**

- 9 Special version, to be specified
- A Default liquid; Basic version
- B Default gas; Basic version
- C Default liquid; Concentration measurement
- D Default gas; Advanced diagnostics
- E Default liquid; Advanced diagnostics
- J Default liquid; Batching
- K Default gas; Batching
- L Default liquid; Batching + concentration  
measurement
- N Default liquid; Batching + Advanced diagnostics
- R Default liquid; Advanced diagnostics +  
concentration measurement
- T Default liquid; Batching + Diagnostics +  
Concentration measurement

**100 Output; Input:**

- 0 4-20mA SIL HART + 2x 20mA + stat.In,  
modules exchangeable
- 2 4-20mA SIL HART + freq.+relay+20mA out,  
modules exchangeable
- 3 4-20mA SIL HART + relay + 20mA (1x out,  
1x in), modules exchangeable
- 4 4-20mA SIL HART + freq.+relay+20mA in,  
modules exchangeable
- 5 4-20mA SIL HART + freq.+20mA in+stat.In,  
modules exchangeable
- 6 4-20mA SIL HART + stat.In + 20mA (1x out,  
1x in), modules exchangeable
- 7 Modbus RS485 + 2x relay + stat.In, modules  
exchangeable
- 9 Special version, to be specified

- A 4-20mA SIL HART + frequency
- B 4-20mA SIL HART + freq. + 2x relay
- C 4-20mA SIL HART + freq. + 2x relay,  
M = modules exchangeable
- D 4-20mA SIL HART + freq.+ relay+stat.In,  
modules exchangeable
- E 4-20mA SIL HART + 20mA+ relay+stat.In,  
modules exchangeable
- F PROFIBUS PA, Ex-i
- G FOUNDATION Fieldbus, Ex-i
- J PROFIBUS DP
- K FOUNDATION Fieldbus
- L 4-20mA SIL HART + 2x relay + stat.In,  
modules exchangeable
- M 4-20mA SIL HART + 2x freq. + stat.In,  
modules exchangeable
- N Modbus RS485 + 20mA +freq.+stat.In,  
modules exchangeable
- P PROFIBUS DP + 20mA + freq.+ stat.In,  
modules exchangeable
- Q Modbus RS485
- R 4-20mA SIL HART + 0/4-20mA, active Ex-i
- S 4-20mA SIL HART active + freq., Ex-i,  
freq. = passive
- T 4-20mA SIL HART passive + freq., Ex-i,  
freq. = passive
- U 4-20mA SIL HART + 0/4-20mA, passive Ex-i
- V PROFIBUS DP + 2x relay + stat.In,  
modules exchangeable
- W 4-20mA SIL HART + 2x 20mA + relay,  
modules exchangeable

**Marking: (Optional)**

- 1 Tagging (TAG), see additional spec.  
Please confirm marking separately.  
1 x TAG, foil label (50061468)  
1 x TAG-stainless steel label (50061469)  
1 x TAG, customer label (50061471)
- 2 Bus address, see additional spec.  
Please confirm marking separately.  
Bus address (50098736)

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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