

GAS FLOW METER & SWITCH



www.dhinst.co.kr

Model : DPDT

4 Digit LCD, 4-20mA, 2Wire / Switch, 4 Wire



■ DESCRIPTION

DPDT Flow Meter measures and displays the flow rate of air or non-corrosive gas accurately ($\pm 1.5\%$) on the 4 Digit LCD with the electric currency. It also has a ΔP mode that indicates a differential pressure and is equipped with zero-setting function through the key panel.

■ SPECIFICATIONS

General

Maximum Pressure : 1 kg/cm²G
 Fluid : Air or non-corrosive gas
 Flow Rate : Refer to range table

Electrical

Power Supply : DC24V
 : 2 Wire Loop Power
 Connections : 2 Screw terminal block
 Display : 4Digit LCD
 Warm up Time : 15 minutes

Transmitter

Connections : 2 Screw terminal block
 Output Signal : 4~20mA DC. 1~5V
 (Limited at 30mADC)
 Loop Resistance : 0~1100 Ω
 Switch : Contact 5A

Performance at 23°C

Zero Output : 4mA(Adjustable)
 Full Span Output : 20mA(Adjustable)
 Accuracy : $\pm 1.5\%$ FSO
 Operating Temperature : 0~400°C
 (The transmitter should be installed remotely for over 100°C)

Mechanical

Enclosure : Weather Proof
 Material : Transmitter / ABS Case
 : Body&Element
 / STS 304, 316, Other
 Mounting : KS 10K Flange & Screw. etc
 Element Type : Average Pitot Tube
 : S-Type Pitot Tube
 : Annular Venturi Meter
 : Orifice

Model : DSDT

4 Digit LCD, 4-20mA, 2Wire / Switch, 4 Wire



■ DESCRIPTION

DSDT Flow Meter measures and displays the flow rate of air or non-corrosive gas accurately ($\pm 1.5\%$) on the 4 Digit LCD with the electric currency. It also has a ΔP mode that indicates a differential pressure and is equipped with zero-setting function through the key panel.

■ SPECIFICATIONS

General

Maximum Pressure : 10 kg/cm²G
 Fluid : Air or non-corrosive gas
 Flow Rate : Refer to range table

Electrical

Power Supply : DC24V
 : 2 Wire Loop Power
 Connections : 2 Screw terminal block
 Display : 4Digit LCD
 Warm up Time : 15 minutes

Transmitter

Connections : 2 Screw terminal block
 Output Signal : 4~20mA DC, 1~5V
 (Limited at 30mADC)
 Loop Resistance : 0~1100 Ω
 Switch : Contact 5A

Performance at 23°C

Zero Output : 4mA(Adjustable)
 Full Span Output : 20mA(Adjustable)
 Accuracy : $\pm 1.5\%$ FSO
 Operating Temperature : 0~400°C
 (The transmitter should be installed remotely for over 100°C)

Mechanical

Enclosure : Weather Proof
 Material : Transmitter / ABS Case
 : Body&Element / STS 304, 316, Other
 Mounting : KS 10K Flange & Screw. etc
 Element Type : Average Pitot Tube
 : S-Type Pitot Tube
 : Annular Venturi Meter
 : Orifice

Models	Suffix Codes	Description
DPDT□ DSDT□	S -----	Screw Type
	F -----	Flange Type
Nominal Pipe Size	□□□ -----	Pipe size in inch or mm
Element Type	A -----	Average Pitot Tube
	S -----	S-Type Pitot Tube
	C -----	Annular Venturi Meter
	O -----	Orifice
	P -----	Option
Body Material	CS -----	Carbon Steel
	4S -----	304SS
	4L -----	304L SS
	6S -----	316SS
	6L -----	316L SS
	OP -----	Option
Element Material	6S -----	316SS
	6L -----	316LSS
	OP -----	Option
Mounting Connection	PT100 -----	Screw Size
	05 -----	KS 5K
	10 -----	KS 10K
	20 -----	KS 20K
	15 -----	ANSI Class 150 LB
	30 -----	ANSI Class 300 LB
	00 -----	Option
Diff' Pressure Tapes	0 -----	MFR STD
	1 -----	NPT 1/2
	2 -----	NPT 3/4
	3 -----	SW 1/2
	4 -----	SW 3/4
Transmitter	O -----	One Body
	S -----	Separation Type
Output	A -----	4~20mA
	V -----	1~5V
	C -----	Contact
	R -----	etc
Option		/ □□□

Model : DPLT

4 Digit LCD, 4-20mA, 2Wire / Switch, 4 Wire



■ DESCRIPTION

DPLT Flow Meter measures and displays the flow rate of air or non-corrosive gas accurately ($\pm 1.5\%$) on the 4 Digit LED with the electric currency. It also has a ΔP mode that indicates a differential pressure and is equipped with zero-setting function through the key panel.

■ SPECIFICATIONS

General

Maximum Pressure : 1 kg/cm²G
 Fluid : Air or non-corrosive gas
 Flow Rate : Refer to range table

Electrical

Power Supply : DC24V
 100~220V AC 50~60Hz
 Connections : 2 Screw terminal block
 Display : 4Digit LED
 Warm up Time : 15 minutes

Transmitter

Connections : 2 Screw terminal block
 Output Signal : 4~20mA DC. 1~5V
 (Limited at 30mADC)
 Loop Resistance : 0~1100 Ω
 Switch : Contact 5A

Performance at 23°C

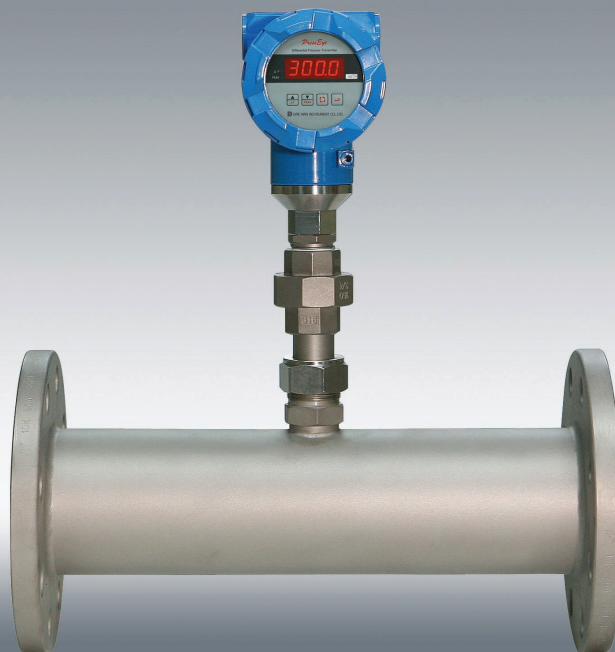
Zero Output : 4mA(Adjustable)
 Full Span Output : 20mA(Adjustable)
 Accuracy : $\pm 1.5\%$ FSO
 Operating Temperature : 0~400°C
 (The transmitter should be installed remotely for over 100°C)

Mechanical

Enclosure : Weather Proof
 Material : Transmitter / ABS Case
 Body&Element
 / STS 304, 316, Other
 Mounting : KS 10K Flange & Screw. etc
 Element Type : Average Pitot Tube
 S-Type Pitot Tube
 Annular Venturi Meter
 Orifice

Model : DSLT

4 Digit LCD, 4-20mA, 2Wire / Switch, 4 Wire



■ DESCRIPTION

DSLTT Flow Meter measures and displays the flow rate of air or non-corrosive gas accurately ($\pm 1.5\%$) on the 4 Digit LED with the electric currency. It also has a ΔP mode that indicates a differential pressure and is equipped with zero-setting function through the key panel.

■ SPECIFICATIONS

General

Maximum Pressure : 10 kg/cm²G
 Fluid : Air or non-corrosive gas
 Flow Rate : Refer to range table

Electrical

Power Supply : DC24V
 100~220V AC 50~60Hz
 Connections : 2 Screw terminal block
 Display : 4Digit LED
 Warm up Time : 15 minutes

Transmitter

Connections : 2 Screw terminal block
 Output Signal : 4~20mA DC. 1~5V
 (Limited at 30mADC)
 Loop Resistance : 0~1100 Ω
 Switch : Contact 5A

Performance at 23°C

Zero Output : 4mA(Adjustable)
 Full Span Output : 20mA(Adjustable)
 Accuracy : $\pm 1.5\%$ FSO
 Operating Temperature : 0~400°C
 (The transmitter should be installed remotely for over 100°C)

Mechanical

Enclosure : Weather Proof
 Material : Transmitter / ABS Case
 Body&Element
 / STS304, 316, Other
 Mounting : KS 10K Flange & Screw. etc
 Element Type : Average Pitot Tube
 S-Type Pitot Tube
 Annular Venturi Meter
 Orifice

Models	Suffix Codes		Description
DPLT□	S	-----	Screw Type
DSLTT□	F	-----	Flange Type
Nominal Pipe Size	□□□	-----	Pipe size in inch or mm
Element Type	A	-----	Average Pitot Tube
	S	-----	S-Type Pitot Tube
	C	-----	Annular Venturi Meter
	O	-----	Orifice
	P	-----	Option
Body Material	CS	-----	Carbon Steel
	4S	-----	304SS
	4L	-----	304L SS
	6S	-----	316SS
	6L	-----	316L SS
	OP	-----	Option
Element Material	6S	-----	316SS
	6L	-----	316LSS
	OP	-----	Option
Mounting Connection	PT100	-----	Screw Size
	05	-----	KS 5K
	10	-----	KS 10K
	20	-----	KS 20K
	15	-----	ANSI Class 150 LB
	30	-----	ANSI Class 300 LB
	00	-----	Option
Diff' Pressure Tapes	0	-----	MFR STD
	1	-----	NPT 1/2
	2	-----	NPT 3/4
	3	-----	SW 1/2
	4	-----	SW 3/4
Transmitter	O	-----	One Body
	S	-----	Separation Type
Power Supply	24	-----	DC24V
	11	-----	AC110V
	22	-----	AC220V
Output	A	-----	4~20mA
	V	-----	1~5V
	C	-----	Contact
	R	-----	etc
Option			/ □□□

Rang Table by size(Air 760mmHgA, 20℃)

Line Size		Flow rate (Nm ³ /h)	Length (mm)
A	B		
10	3/8	0.8~4	203
15	1/2	2~9.2	203
20	3/4	5~23	203
25	1	8~40	203
32	1 1/4	12~60	254
40	1 1/2	18~90	254
50	2	35~175	305
65	2 1/2	60~300	305
80	3	80~400	356
100	4	160~800	406
125	5	250~1250	478
150	6	350~1700	559
200	8	600~2800	660
250	10	900~5000	711
300	12	1600~7800	762
350	14	2000~9500	762
400	16	3000~14500	762
450	18	4000~19000	762
500	20	5000~24000	914

An Example of Vertical Installation



An Example of Remote Installation

