100

Model WO81F

(surface type)

WO81

List of products

Utility model registration No. 823971

RoHS

WO81

WO71

FR51A

MS99

MS99S

MS61A-RA

QDP33

EMD8A

EMD7

EMT1

EMTGP1

EMT1H

EMT6

EMP5A

EMRT1

HWS15A

Accessories

Application

Precautions

Maintenance

High-accuracy fine differential pressure gauge

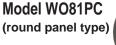
- · Boasting a wide variety, the product is also compatible with airflow rate and speed scales (refer to page 15).
- Easy-to-read wide angle scale (pointer rotation angle of 270°)
- · Pipe connection port that facilitates polarity conversion

200

250

- · Unique mechanism less subject to abnormal high pressure inrush
- · High-performance silicone rubber diaphragm with small hysteresis
- · Band-link mechanism that prevents the pointer from vibrating









Model WO81PR (square panel type)





*Memory pointer can be set at an arbitrary



With single memory pointer

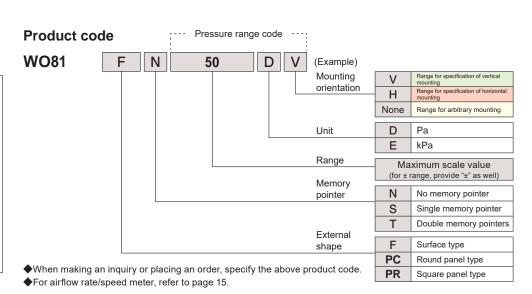


With double memory pointers

<Main application fields> • Nuclear facilities

- Food-related factory management equipment
- Air-conditioning control equipment in high-rise building
- Hospital and medical facilities Automotive manufacturing/
- semiconductor manufacturing lines Control of air discharge pressure from coffee roaster

- · Room pressure measurement in a
- · Detection of clogging of air filter Measurement of airflow rate/speed of ventilation/exhaust device and
- *(Refer to pages 114 to 117)



WO81

Specifications

	Main body Surfa Memory pointer			ice type	Round p	anel type	Square panel type	
Model				F	Р	С	PR	
	No memory pointer N		WO81FN		WO8	IPCN	WO81PRN	
	Single memory pointer (red)	3 WOOIF3		081FS	WO8	IPCS	WO81PRS	
	Double memory pointers (one each for red and green)			D81FT	WO8	IPCT	WO81PRT	
ressure unit	Pa, kPa			Compatible pip			nner diameter of 6 mm)	
ressure neasurement	Differential pressure method				••	Base for resin vin gauge)	yl pipe (already mounted on	
nethod Pressure-receiving	Diaphragm					ic pipe (outer diamet	er of 6 ± 0.1 mm) ase for metallic pipe is	
element Measured gas	Air and noncorrosive gas (liquid cannot be measured)					necessary.	• •	
Scale indication	Wide-angle indication of approx. 270 degrees				4 mm)		ameter 6 mm × inner diameter	
ngle Operating ambient Operature	-10°C to +50°C (no freezing allowed)			sleeve set (refer to necessary. Base polarity • Identification with red on highly low pressure side • By exchanging the base on		ase for metallic pipe and inner o page 111) or push-in joint is		
Dperating ambient numidity	90% RH or below (no condensation allowed)					cation with red on high pressure side and blue on		
nstrument body vithstanding	200 kPa (refer to page 118)					changing the base or	base on the high-pressure side with	
oressure Exterior material	Polycorhopata and polyamida					the polarity.		
Exterior material Ourable impact	Polycarbonate and polyamide 100 m/s ² (six times each for three axial directions)			Mass	Approx	Approx. 270 g		
Durable vibration	5 to 10 Hz Amplitude of 10 mr 10 to 50 Hz Acceleration of 39		ours each for					
	three axial directions)	in/s (two no	Juis each loi					
Accessories	WO81F	Torres 1	WO81PC wo sets of mounting fittings (already n			WO81PR		
	Mounting screw set Two			of mounting fittings (a gauge body	nready mounted on	Mounting nut set (already mounted on gauge body)		
Pressure range code	Pressure range		Accuracy (N (at 20°C)	, l	ssure-receiving ement material	Withstanding pressure of pressure-receiving element (Refer to page 118)		
50 DH	0–50 Pa	Horizontal (specification) Upright (specification)		±5% FS				
50 DV	0 00 . 0						10 kPa	
100 DH	0–100 Pa	Horizontal (specification)						
100 DV	0 1001 0	Upright (sp	ecification)	±2.5% FS				
200 D	0–200 Pa							
300 D	0–300 Pa	Between horizontal and upright						
500 D	0–500 Pa							
1000 D	0–1000 Pa							
1 E	0–1 kPa						40 kPa	
2 E	0–2 kPa							
3 E	0-3 kPa			,4 50/ 50				
5 E	0–5 kPa	Arbitrary	mounting	±1.5% FS				
10 E	0–10 kPa							
20 E	0–20 kPa					Silicone rubber	150 kPa	
30 E	0–30 kPa							
50 E	0-50 kPa							
100 E	0–100 kPa							
+- 50 DH	F0 to :50	specification)						
+- 50 DV	-50 to +50	Upright (specification)		±2.5% FS			10 kPa	
+- 100 D	-100 to +100 Pa							
+- 200 D	-200 to +200 Pa							
+- 300 D	-300 to +300 Pa	Between horizontal and						
+- 500 D	-500 to +500 Pa							
+-1000 D	-1000 to +1000 Pa	Arhitran	mounting	±1.5% FS			40 kPa	
+- 1 E	−1 to +1 kPa	Arbitrary mounting						
+- 2 E	−2 to +2 kPa							

(Note) Accuracy in full span (refer to page 121)

-3 to +3 kPa

+- 3 E

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For biased pressure range, the polarity symbol "-" can be indicated for a fee. If the indication is necessary, make a request at the time of order placement.

[◆]For use environment, refer to page 118.