



The electronic  $\textbf{PREMASREG}^{\texttt{®}}$  711x pressure sensors and switches are equipped with eight switchable measuring ranges, one switching output, one continuous output, and a display for setting the switchpoint and to display the ACTUAL pressure (eight devices in one, plus differential pressure switch/  $^{\prime}$  $\label{lem:differential} \ differential\ pressure\ monitor,\ continuous\ pressure\ sensor\ in\ a\ single\ device).$ 

The pressure sensor with a housing made from impact-resistant plastic, with cable gland or M12 connector according to DIN EN 61076-2-101 and pressure connection nozzles (quick connect optional) is used to measure positive, negative or differential pressures in clean air, with limit value switching. The piezoresistive measuring element guarantees a high degree of reliability and accuracy.

Applications of these pressure sensors are in clean room, medical and filter technology, in ventilation and air conditioning ducts, in spray booths, in large-scale catering facilities, for filter monitoring and level measurement or for triggering frequency converters. Media measured with these pressure transducers are air (non-precipitating), or other gaseous, non-aggressive, non-combustible media.

The pressure sensor has a button for manual zero point calibration (automatic zero point calibration optional) and one offset potentiometer for setting the switching point and one for final value correction. The sensor is factory-calibrated; an environmental precision adjustment by an expert is possible. The delivery includes the connection set ASD-06 (2 m connection hose, two pressure port nipples, screws).

TECHNICAL DATA			
Power supply:	24 V AC/DC (±10%)		
Load resistance:	$R_L > 15 \text{ kOhm}$		
Power consumption:	< 2W / 24 V DC; < 4.4 VA / 24 V AC		
Measuring ranges:	multi-range switching with 8 switchable measuring ranges (see table)		
Type of pressure:	differential pressure		
Pressure connection:	with connection <b>nozzle</b> for pressure hose Ø 6mm, optionally with <b>quick</b> connect made from stainless steel for PVC fabric pressure hose Ø 6mm (external diameter)		
Medium:	clean air and non-aggressive, non-combustible gases		
Media temperature:	$-20+50^{\circ}\text{C}$ (temperature-compensated $0+50^{\circ}\text{C}$ )		
Accuracy:	Type 7111 (1000 Pa): typically $\pm$ 10 Pa Type 7115 (5000 Pa): typically $\pm$ 35 Pa compared to the calibrated reference device		
Sum of linearity+hysteresis:	$< \pm 1\%$ of final value		
Temp. drift values:	± 0.1% /°C		
Zero point offset:	$<\pm$ 0.7 % of final value		
Setting increment $\Delta p$ :	1% of pressure range (100 Pa => 1 Pa; 5000 Pa => 50 Pa)		
Switching hysteresis:	$\pm$ 1% of pressure range (100 Pa => $\pm$ 1 Pa; 5000 Pa => $\pm$ 50 Pa)		
Positive /negative pressure:	± 50 kPa		
Signal filtering:	switchable 1s / 10s (via DIP switches)		
Output:	O -10 V 1 changeover contact (24 V), 1 A ohmic load		
	1 changeover contact (24 V), 1 A ohmic load		
Connection type:	1 changeover contact (24V), 1 A ohmic load  3-wire connection		
Connection type: Electrical connection:			
	3-wire connection		
Electrical connection:	3-wire connection  0.2 - 1.5 mm², via push-in terminals  cable gland, plastic  (M 16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code)		
Electrical connection:  Cable connection:	3-wire connection  0.2 - 1.5 mm², via push-in terminals  cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101  plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016),		
Electrical connection:  Cable connection:  Housing:	3-wire connection  0.2 - 1.5 mm², via push-in terminals  cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101  plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), cover for display is transparent!		
Electrical connection:  Cable connection:  Housing:  Housing dimensions:	3-wire connection  0.2 - 1.5 mm², via push-in terminals  cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101  plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), cover for display is transparent!  126 x 90 x 50 mm (Tyr 2)		
Electrical connection:  Cable connection:  Housing:  Housing dimensions:  Air humidity:	3-wire connection  0.2-1.5 mm², via push-in terminals  cable gland, plastic (M16x1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101  plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), cover for display is transparent!  126 x 90 x 50 mm (Tyr 2)  <95% RH, non-precipitating air		
Electrical connection:  Cable connection:  Housing:  Housing dimensions:  Air humidity:  Protection class:	3-wire connection  0.2-1.5 mm², via push-in terminals  cable gland, plastic (M16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101  plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), cover for display is transparent!  126 x 90 x 50 mm (Tyr 2)  < 95 % RH, non-precipitating air  III (according to EN 60 730)		
Electrical connection: Cable connection:  Housing:  Housing dimensions:  Air humidity:  Protection class:  Protection type:	3-wire connection  0.2-1.5 mm², via push-in terminals  cable gland, plastic (M16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or  M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101  plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), cover for display is transparent!  126 x 90 x 50 mm (Tyr 2)  < 95 % RH, non-precipitating air  III (according to EN 60 730)  IP 65 (according to EN 60 529) in the built-in state		

Pressure port for pressure hose (as standard)











PREMASREG® 711x

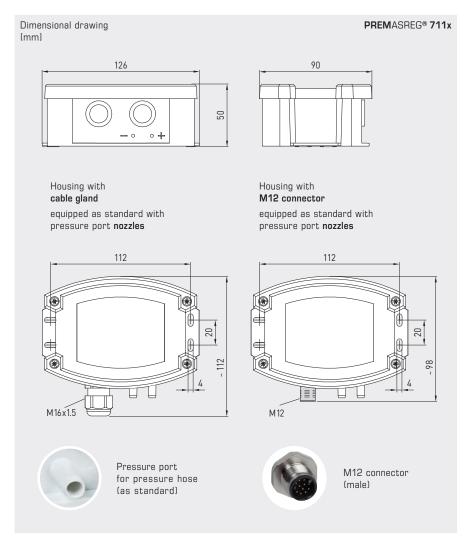
with cable gland

and display





Pressure and differential pressure measuring transducers/switches, incl. connection set, with multi-range switching and adjustable, switching and active output



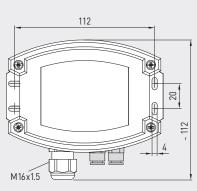


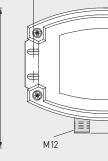
PREMASREG® 711x-Q with M12 connector and display



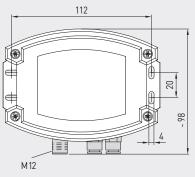








quick connect

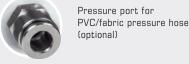




PVC/fabric pressure hose (optional)

Pressure port for





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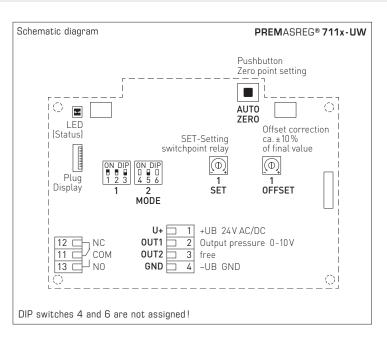
quick connect

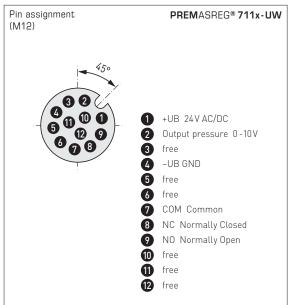


M12 connector (male)





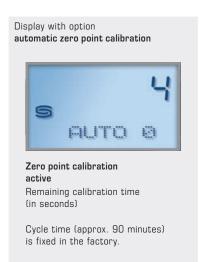




Pressure range (selectable) – max. measuring range (default) is depending to the type of device				DIP 1	DIP 2
0100 Pa	01000 Pa	-100+100 Pa	-1000+1000 Pa	OFF	OFF
0300 Pa	02000 Pa	-300+300 Pa	-2000+2000 Pa	ON	OFF
0500 Pa	03000 Pa	-500+500 Pa	-3000+3000 Pa	OFF	ON
01000 Pa	05000 Pa	-1000+1000 Pa	-5000+5000 Pa	ON	ON

Measuring range mode (Mode selectable)	
Bidirectional (-MR+MR)	ON
Unidirectional (O+MR) (default)	OFF

Measurement signal filtering (Time interval selectable)		
1 s	ON	
10s (default)	OFF	







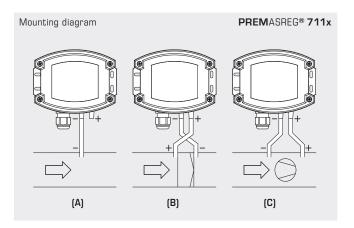
### PREMASREG® 711x-Q

with display, hinged









## TYPES OF MONITORING:

#### (A) Below-atmospheric pressure:

P1 (+) is not connected but open against atmosphere P2 (-) connected to inside of duct

#### (B) Filter:

P1 (+) connected upstream of filter P2 (-) connected downstream of filter

# (C) Ventilator:

P1 (+) connected downstream of ventilator

P2 (-) connected upstream of ventilator

Pressure connections at the pressure switch are marked with P1 (+) for higher pressure and P2 (-) for lower pressure.

#### Conversion table for pressure values:

Unit =	bar	mbar	Pa	kPa	mWS
1 Pa	0,00001 bar	0,01 mbar	1 Pa	0,001 kPa	0,000101971 mWS
1 kPa	0,01 bar	10 mbar	1000 Pa	1 kPa	0,101971 mWS
1 bar	1 bar	1000 mbar	100000 Pa	100 kPa	10,1971 mWS
1 mbar	0,001 bar	1 mbar	100 Pa	O,1 kPa	0,0101971 mWS
1 mWS	0,0980665 bar	98,0665 mbar	9806,65 Pa	9,80665 kPa	1 mWS















































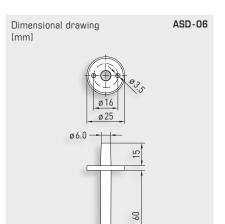






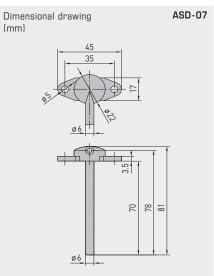






ø 6.5

ASD-07 Dimensional drawing [mm] 8 18



DAL-01 Dimensional drawing [mm] Federn Springs ø35

ASD-06 Connection set



ASD-07

Connection nipple

DAL-01 Pressure outlet







WS-03 Weather and sun protection hood (optional)





Pressure port for PVC/fabric pressure hose (optional)



ACCESSORIE	ES CONTRACTOR OF THE CONTRACTO		
ASD-06	Connection set (included in the scope of delivery), consisting of 2 connection nipples (straight) made of ABS, 2 m PVC hose (soft, UV-resistant) and 4 screws	7100-0060-3000-000	8,18 €
ASD-07	2 connection nipples (at 90 degree angle) made of plastic, ABS	7100-0060-7000-000	8,18 €
DAL-01	Pressure outlet for ceiling or in-wall installation (e.g. in clean rooms)	7300-0060-3000-001	38,31 €
WS-03	Weather and sun protection hood, 200 x 180 x 150 mm, stainless steel V2A (1.4301)	7100-0040-6000-000	47,92 €
	For further information, see chapter Accessories!		



PREMASREG® 711x-Q with M12 connector

PREMASREG® 711x with cable gland 



PREMASREG® 711x	Pressure and differential pressure measuring transducers/switches, <i>Deluxe</i> (with cable gland or M12 connector)				
Pressure range (adjustable)	Type/WG02	Output	Display ● = Q	Item No.	Price
max 1000+ 1000 Pa	Туре 7111				
O 100 Pa / - 100 + 100 Pa O 300 Pa / - 300 + 300 Pa O 500 Pa / - 500 + 500 Pa O 1000 Pa / -1000 + 1000 Pa	PREMASREG 7111-UW LCD	0 -10 V 1x Changeover	contact	1302-7111-4011-200	257,78 €
	PREMASREG 7111-UW Q LCD	O-10 V 1x Changeover	• contact	2004-6132-4100-001	302,71 €
max 5000+ 5000 Pa	Туре 7115				
01000 Pa / -1000 + 1000 Pa 02000 Pa / -2000 + 2000 Pa 03000 Pa / -3000 + 3000 Pa 05000 Pa / -5000 + 5000 Pa	PREMASREG 7115-UW LCD	0-10 V 1x Changeover	contact	1302-7111-4051-200	257,78 €
	PREMASREG 7115-UW Q LCD	O-10 V 1x Changeover	• contact	2004-6132-4100-011	302,71 €
Housing variant "Q":	Cable connection with M12 connector (male, 12-pin, A-code)				
Multi-range switching:	The pressure ranges depend on the device type and can be set via DIP switches.				
Extra charge:	Other special measuring ranges up to max. 5000 Pa with optional automatic zero point calibration with optional quick connect for PVC fabric pressure hose Ø 6 mm			53,37 € 77,73 € 44,93 €	

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