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The electronic **PREM**ASREG® **711x-VA** 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/differential pressure monitor, continuous pressure sensor in a single device).

The pressure sensor with a housing made from **stainless steel V4A**, with cable gland or M12 connector according to DIN EN 61076-2-101 and pressure port using quick connect (pipe fitting 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) as well as 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.

TECHNICAL DATA	
Power supply:	24 V AC/DC (±10%)
Load resistance:	$R_L > 15 kOhm$
Power consumption:	< 2 W / 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 port:	with quick connect made from stainless steel for PVC/fabric pressure hose Ø 6 mm (external diameter) optionally with pipe fitting made from stainless steel V2A (1.4305) for pressure lines Ø 6 mm
Medium:	clean air and non-aggressive, non-combustible gases
Media temperature:	-20+50 °C (temperature-compensated 0+50 °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 Δp :	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:	0 -10 V 1 changeover contact (24 V), 1 A ohmic load
Connection type:	3-wire connection
Electrical connection:	0.2 - 1.5 mm², via push-in terminals
Cable connection:	cable gland, stainless steel V2A (1.4305) (M 20 x 1.5; with strain relief, exchangeable, inner diameter 6 - 12 mm) or M12 connector (male, 12-pin, A-code) according to DIN EN 61076-2-101
Housing:	stainless steel V4A (1.4571), with non-distortion cover bolting, impact-resistant, high EMI shielding, corrosion, temperature, weather- and UV-resistant
Housing dimensions:	143 x 97 x 61 mm (Tyr 2E)
Air humidity:	<95% RH, non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 65 (according to EN 60529) in the built-in state housing tested, TÜV SÜD, Report No. 713160960B (Skadi2)
Standards:	CE conformity according to EMC Directive $2014/30/EU$
Equipment:	display with illumination, three-line, cutout approx. 70 x 40 mm (W x H), for displaying ACTUAL pressure and /or SETPOINT pressure as well as automatic zero point calibration

Pressure port for PVC / fabric pressure hose (as standard)



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ACCESSORIES

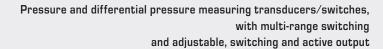
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(see table)

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PREMASREG® 711x-VA





Dimensional drawing PREMASREG® 711x-VA with cable gland [mm] and display 97 143 61 125 Housing with Housing with cable gland M12 connector equipped as standard with equipped as standard with U quick connect quick connect for pressure hoses for pressure hoses 126 126 ۲ ۲ ۲ ۲ PREMASREG® 711x-VAQ 2 1 with M12 connector and display 113 ۲ ۲ 8.8 8.8 M20x1.5 M 12 Pressure port for PVC / fabric pressure hose M12 connector (male) (as standard) U 101 PREMASREG® 711x-VA Dimensional drawing [mm] Housing with Housing with cable gland M12 connector optional on request optional on request with pipe fitting with pipe fitting for pressure lines for pressure lines 126 126 ۲ ۲ ۲ ۲ 2 Pressure port 126 (*) (*) 6 for pressure lines / pipes (optional) 8.8 8.8 M20x1.5 M12 Pressure port M12 connector for pressure lines / pipes (male) (optional)

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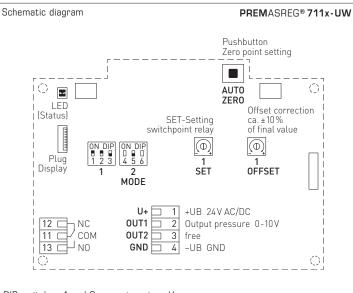
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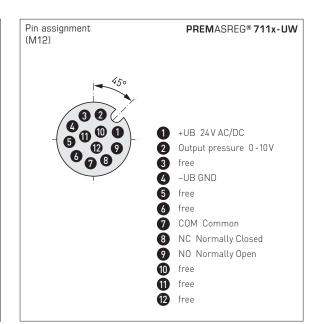
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Pressure and differential pressure measuring transducers/switches, with multi-range switching and adjustable, switching and active output







 $\mathsf{DIP}\xspace$ switches 4 and 6 are not assigned!

Pressure range (selectable) – max. measuring range (default) is depending to the type of device					
0100 Pa	0100 Pa 01000 Pa -100+100 Pa -1000+1000 Pa				
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

DIP

3

ΟN

OFF

Measuring range mode (Mode selectable) Bidirectional (-MR...+MR) Unidirectional (0...+MR) (default)

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

Display with option automatic zero point calibration



(in seconds)

Cycle time (approx. 90 minutes) is fixed in the factory.

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



PREMASREG® 711x-VAQ with display, hinged







Mounting diagram PREMASREG® 711x

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	0,1 kPa	0,0101971 mWS
1 mWS	0,0980665 bar	98,0665 mbar	9806,65 Pa	9,80665 kPa	1 mWS

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



PREMASREG[®] **711x-VAQ** with M12 connector

PREMASREG® 711x-VAQ	Pressure and differential pressu (Stainless steel housing with M		Isducers	/switches, <i>ID</i>	
Pressure range (adjustable)	Type/WG02I	Output	Display = Q	Item No.	Price
max 1000+ 1000 Pa	Type 7111				
0 100 Pa / - 100 + 100 Pa 0 300 Pa / - 300 + 300 Pa 0 500 Pa / - 500 + 500 Pa 0 1000 Pa / -1000 + 1000 Pa	PREMASREG 7111-UW VAQ LCD	0 -10 V 1x Changeover cont	e E	2004-6192-4100-001	800,66 €
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 VAQ LCD	0 -10 V 1x Changeover cont	e I	2004-6192-4100-011	800,66 €
Housing variant "Q":	Cable connection with M12 connector	(male, 12-pin , A-code)			
Multi-range switching:	The pressure ranges depend on the de	vice type and can be s	set via DIF	switches.	
Extra charge:	Other special measuring ranges up to with optional automatic zero point calil with optional pipe fitting made from st for pressure lines Ø 6 mm	bration			53,37 € 77,73 € 44,93 €

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ACCESSORIE	ES
xx-M12	Special accessories for M12 connector
	For further information, see chapter Accessories!

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



PREMASREG® **711x-VA** with cable gland



PREMASREG® 711x-VA	Pressure and differential pressu (Stainless steel housing with ca		sducers	/switches, <i>ID</i>	
Pressure range (adjustable)	Type/WG02I	Output	Display	ltem No.	Price
max 1000+ 1000 Pa	Type 7111				
0 100 Pa / - 100 + 100 Pa 0 300 Pa / - 300 + 300 Pa 0 500 Pa / - 500 + 500 Pa 01000 Pa / -1000 + 1000 Pa	PREMASREG 7111-UW VA LCD	0 -10 V 1x Changeover cont	tact	2004-6192-4200-001	759,41 €
max 5000+ 5000 Pa	Type 7115				
01000 Pa / -1000 + 1000 Pa 02000 Pa / -2000 + 2000 Pa 03000 Pa / -3000 + 3000 Pa 05000 Pa / -5000 + 5000 Pa	PREMASREG 7115-UW VA LCD	0 -10 V 1x Changeover cont	tact	2004-6192-4200-011	759,41 €
Housing variant:	Cable connection with cable gland made from stainless steel V2A (1.4305)				
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 with optional automatic zero point calil with optional pipe fitting made from st for pressure lines Ø 6 mm	bration			53,37 € 77,73 € 44,93 €



Pressure port for PVC / fabric pressure hose (as standard)



Pressure port for pressure lines / pipes (optional)

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