

Pressure Sensor

Level/SCAN



Application

- accurate hydrostatic level measuring in vessels and tanks
- precise pressure measuring in pipes and vessels

Application Examples

- pressure monitoring
- measuring the tank's content with dan-341, tank-linearization and -evaluation with pem-dd (6 standard geometrys, one is free configureable)

Hygienic Design / Process Connection

- by using the Negele weld-in sleeve EMZ-352 or the build-in system EHG-.../1" a front-flush, hygienic and easy cleanable measurement point will be achieved (3A-certificate, EHEDG-registration)
- CIP-/ SIP-cleanable up to 120°C
- front-flush stainless steel sensor cell
- FDA konform sensor materials
- sensor completely made of stainless steel
- type of protection is IP69K
- further process connections:
TriClamp, diary flange, SMS, DRD, Varivent, BioControl

Features

- robust design
- piezoresistive measurement cell
- defined PG position
- integrated two-wire measurement transmitter 4-20mA

Options / Accessories

- special pressure ranges
- absolut measurement of pressure
- electrical connection with M12-plug-in
- prefabricated cable with M12-plug-in link
- tank content measurement device pem-dd with linearization



EMZ-352

dan-341 / M12

EHG-.../G1"

Attention: Use only Negele weld-in systems to ensure a safety function of the measurement point!

Specification

Pressure ranges	standard	0,4 / 0,8 / 1,2 / 2,0 5,0 / 10,0 bar rel.	Temperature ranges	ambient	-20...+60°C
Overload stability	factor	at least 2 of full scale 2 bar min.		Process	-40...+120°C
Process connection	thread	G1" sensor, comb. with Negele- weld-in sleeve	Temperature compensation	compensated	up to 85°C
	torque	20Nm max.	Temperature compensation time T90		≤ 10s
Materials	connector head	SS V2A, (1.4305), 55mm dia.	Linearity	variation	<±0,2% o. f. scale
	thread connection	SS V4A, (1.4571)	Accuracy	zero	4mA ±0,15mA
	membrane	SS V4A, (1.4435)		span	16mA ±0,1mA
			Temperature drift	zero typ.	0,02% o. f. s. / K
				span typ.	0,02% o. f. s. / K
			Electr. connection	PG (M16x1,5)	2pin 1,5mm ²
				optional	M12-plug-in V2A
			Output	current loop	4-20mA
			Power supply		12...36V DC
			Type of protection		IP69K

Order Code

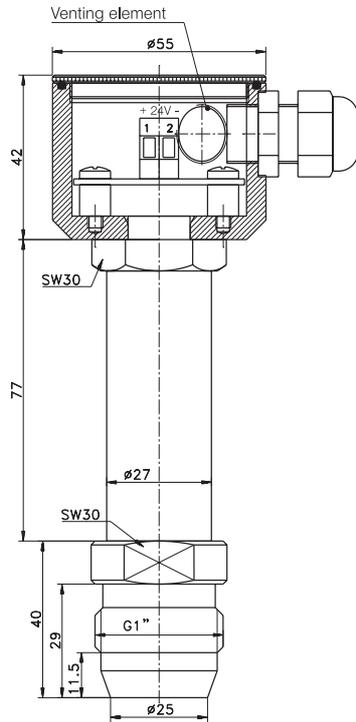
Type	Process connection	Range [bar]	Indicator module	Electr. connection	
dan-341	G1"	0,4 / 0,8 / 1,2 / 2,0 / 5,0 / 10,0 rel.	- - -	PG* M12	*Standard, no declaration necessary.

Order example: dan-341 / 4,0 / M12

Dimensioned drawing / Electrical connection

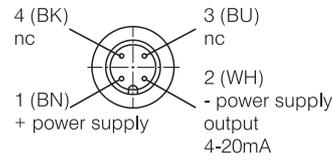
Attention: The maximum torque for installation is 20Nm!

Avoid pressure strikes, because these high overloads can damage the sensor!



dan-341

M12-plug-in



Overview of deliverable process connections (Basic device and adapters order separately!)

Process connection	build-in system EHG (DIN 11850 Reihe 2)	Negele weld-in sleeve	TriClamp	diary flange (DIN 11851)	DRD (press ring optional deliverable)	Varivent	APV-Inline	Adapter G 1 1/2" to G1"
Size								
DN25	-		AMC-352/1"-1,5"	AMK-352/25	-	-	-	AMG-352 suitable for existing G1 1/2" connection
DN40	EHG-40/1"	EMZ-352 suitable for installation in vessels	AMC-352/1"-1,5"	AMK-352/40	-	AMV-352	AMA-352	
DN50	EHG-50/1"		AMC-352/2"	AMK-352/50	AMK-352/50	"	"	
DN65	EHG-65/1"	EMS-352 suitable for installation in pulled-out pipes	AMC-352/3"	AMK-352/65	"	"	"	
DN80	EHG-80/1"		AMC-352/80	AMK-352/80	"	"	"	
DN100	EHG-100/1"		AMC-352/4"	AMK-352/100	"	"	"	
Order example:	TriClamp für DN100: AMC-352 / 4"							

