



IDCT 562

Industrial **Pressure Transmitter** with i²C interface

Ceramic Sensor

accuracy according to IEC 60770: 0.5 % FSO

Nominal pressure

from 0 ... 400 mbar up to 0 ... 600 bar

Digital output signal

- i²C
- bus frequency max. 400 kHz
- configuration of data format
- interrupt signal

Special characteristic

pressure port G 1/2" open port PVDF for aggressive media

Optional versions

customer specific versions

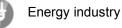
Regardless of whether you need a pressure transmitter with i²C interface for an application in the laboratory area or in plant and mechanical engineering, the IDCT 562 is adaptable for the detection of pressures and fill levels of pasty, contaminated Universal or aggressive media. Various mechanical and electrical connections are available.

The integrated i²C interface offers the user various options in the area of addressing and data acquisition, as well as simple control and use of the network for fast and slow bus users.

Preferred areas of use are



Plant and machine engineering



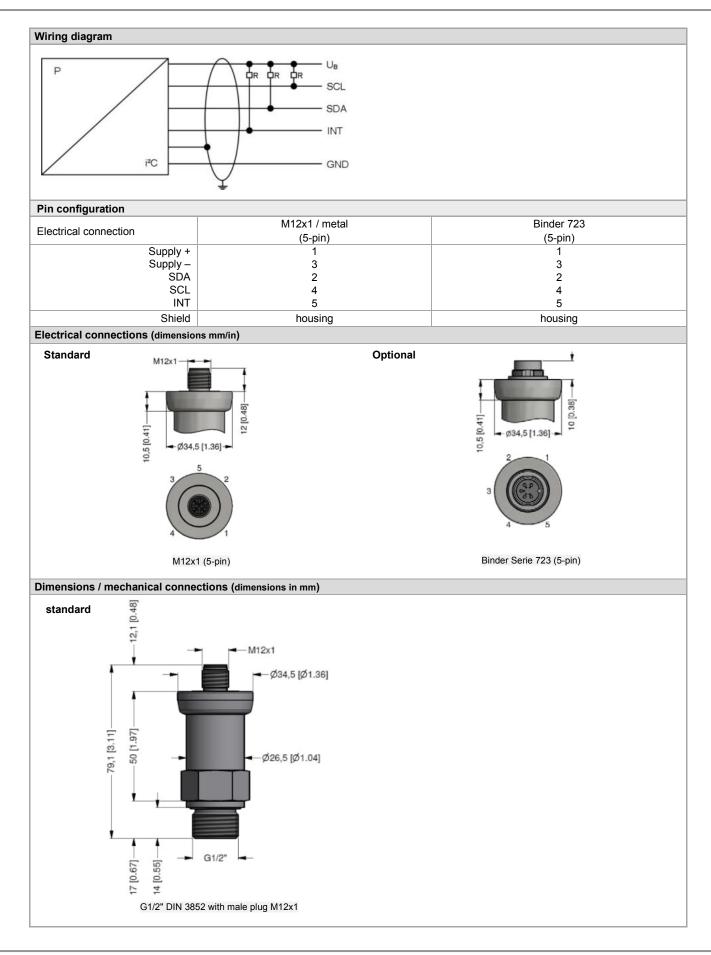
Laboratory applications

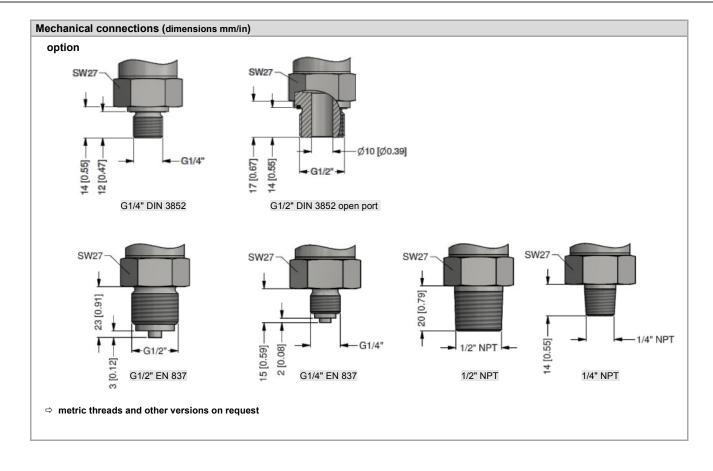


Tel.: 03303 / 504066 Fax: 03303 / 504068

Input pressure range ¹	1						1		1				1	1					
Nominal pressure gauge	[bar] -	10	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400	600
Nominal pressure absolute	[bar]	-	-	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400	600
Overpressure	[bar]	4	1	2	2	4	4	10 [·]	0	20	40	40	100	100	200	400	400	600	800
Burst pressure ≥	[bar]	7	2	4	4	5	7.5	12	8	30	50	75	120	180	300	500	750	1000	1100
Permissible vacuum	· · ·	_{'N} ≥ 1 k _{'N} < 1 k				uum i	resista	nce											
¹ PVDF pressure port possible for	or nomin	nal pres	ssure r	anges	up to	50 bar													
Output signal / Supply																			
i ² C		Vs =	3.5	5.5 V	DC														
Performance					-														
Accuracy ²		≤±0	.5 %	FSO															
Max. I/O current		10 m	0 mA																
Long term stability			≤ ± 0.3 % FSO / year at reference conditions																
Response time			1.5 msec + transmission time (depending on bus frequency)																
Measuring rate		500 Hz																	
² accuracy according to IEC 607	70 – lim			ment (i	non-lir	nearitv	hvster	esis, ren	eatał	oilitv)									
Thermal effects (offset and			aajaot	mont (i		iounty,	nyotore	, rop	Juius	, , , , , , , , , , , , , , , , , , ,									
Thermal error	a span		2%	50/	10 K														
In compensated range		≤ ± 0.2 % FSO / 10 K -25 85 °C																	
Permissible temperatures		-25	. 05 (5															
Permissible temperatures ³		medi					40	125 °C											
remissible temperatures			onics	/ envi	ronm	ent:	-40	85 °C 100 °(2										
³ for pressure port in PVDF the r	nedium	tempe	rature	is -30 .	60 '	C													
Electrical protection																			
Short-circuit protection		perm	anent																
Reverse polarity protection		•		-				no dam signal	-					g to c	onste	llation	to dar	mages.	
Electromagnetic compatibilit	.v	-		-				to EN 6						<u> </u>					
Mechanical stability						·													
Vibration		10 a I	RMS	25	2000	Hz)	accord	ling to [DIN I	EN 6	0068-	2-6							
Shock		500 g		-				ling to [
Materials			,																
Pressure port		optio	nal for		" DIN		404 (3 open	16 L) port wit	n no	mina	l pres	sure r	ange	max.	up to	60 bai	": PVD	۶F	
Housing		stainl	ess st	teel 1.	4404	(316	_)												
Seals		stand	lard:	FKM															
		optio	า:	EPD	Л (for	p _N ≤ .	160 ba	r)											
		other	s on r	eques	t														
Diaphragm		ceran	nic Al	2O ₃ 96	%														
Media wetted parts		press	ure p	ort, se	als, c	liaphra	agm												
Miscellaneous							-												
Current consumption		< 15	mA																
Weight		appro		0 a															
Ingress protection		IP 67		- 9 - 9															
Installation position		-																	
•		any	nillion	loca															
Operational life				load o tive: 2	-						F		D :	41	2044/		/.a- : *	ule A) 4	
CE-conformity		- N/I (`	1 JIROC	TIV/A' ')	111/1/	su/FII			urne	CIICO	- auto	mont	UIREC	TIVA:	/1174/6	5×/⊢II	imodi	$\mu \alpha \Lambda \lambda^4$	

IDCT 562 Industrial Pressure Transmitter with i²C interface





Configuration i ² C-interface																	
Stand configuration	0	5	0	-	0	-	0	-	0	-	0	-	0	0	0	0	1
Slave address																	
address	0	0	1														
	1	2	7														
Type of result register																	
32bit IEEE float					0												
16bit Integer					1												
Byte order of values																	
Low byte first							0										
High byte first							1										
Mode of result register																	
Value									0								
Percent of nominal									1								
Restore of address pointer																	
No restore											0						
To last set address on next start											1						
Digital meaning																	
Count of result													0	0	0	0	1
													1	0	0	0	0
O sufin matin a sada			- 	-	-	-	-	-	1	-	-	- 	-	-		-	
Configuration code (has to be defined with the order)				-		-		-		-		-					

		0	rder	ing	COO	de	ID	СТ	56	62								
IDCT 562]-[]		-	□-[]-		П	-]-[]-[]-[]-[]				
Pressure	2 5 0																	
absolute	2 5 0 2 5 1												-					
Input [bar] 0.4		4 (0 0															
0.6 1.0		6 (0 0 0															
1.6 2.5		1 6	6 0 1 5 0 1															
4.0		2 5	0 1															
6.0 10		6 0	0 0 1 0 0 2															
16		1 6	0 0 2 6 0 2 5 0 2 0 0 2															
25 40		2 5	6 0 2 5 0 2 0 0 2															
60 100		6 (0 0 2															
160 250		1 6	0 0 2 0 0 2 0 0 3 5 0 3 5 0 3 0 0 3 0 0 3 0 0 3 1 0 2 9 9 9															
400		2 :	0 3															
600 -1 0		6 (X -	0 3															
customer		9 9	9 9 9															consult
Output i ² C				I	С													
Accuracy 0.5 % FSO						5												
customer Electrical connection	_	_	_			5 9											_	consult
male plug M12x1 (5-pin) / metal							N 1	7										
male plug Binder series 723 (5-pin) customer							N 1 2 0 9 9	9										consult
Mechanical connection G1/2" DIN 3852	1							1 - 1	1	0 0								
G1/2" EN 837									2	0 0								
G1/4" DIN 3852 G1/4" EN 837									3 4	0 0 0 0								
G1/2" DIN 3852 open pressure port 1/2" NPT									н	0 0								
1/4" NPT									N	4 0								
customer Seal									9	99								consult
FKM EPDM	2										1							
customer											ç							consult
Pressure port stainless steel 1.4404 (316L)													1					
PVDF customer	3											E	3					consult
Diaphragm													1					Consult
ceramics Al ₂ O ₃ 96 % customer													2 9					consult
Special version standard															0 0			
customer														9	0 0 9 9)		consult

¹ metric threads and others on request

³ PVDF only with G1/2" DIN 3852 open pressure port (up to 60 bar); permissible medium temperature: -30 ... 60 °C