

DCT 532

Industrial Pressure Transmitter with i²C interface

Stainless Steel Sensor

Accuracy according to IEC 60770: ≤ ± 0.25 % FSO

Nominal pressure

from 0 ... 100 mbar up to 0 ... 400 b

Digital output signal

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

Special characteristic

- perfect thermal behaviour
- excellent long term stability

Optional versions

- pressure portG 1/2" flush up to 40 bar
- welded sensor
- customer specific versions

Contrary to the industrial pressure transmitter with analogue signal, the DCT 532 has a digital i²C-interface. i²C has a master-slave topology, whereby you can use up to 127 devices at one master. In addition to the typical settings, as slave address, data format, etc., it is possible to do special parametrisation for pressure unit and more.

Due to the usage of high quality materials and components, the DCT 532 is suitable for almost every industrial application, if medium is compatible with stainless steel 316L.

The modular concept of the pressure transmitter allows customized electrical or mechanical connections, so it is easy to adapt the pressure transmitter to different conditions on-site.

Preferred areas of use are



Plant and machine engineering



Energy industry



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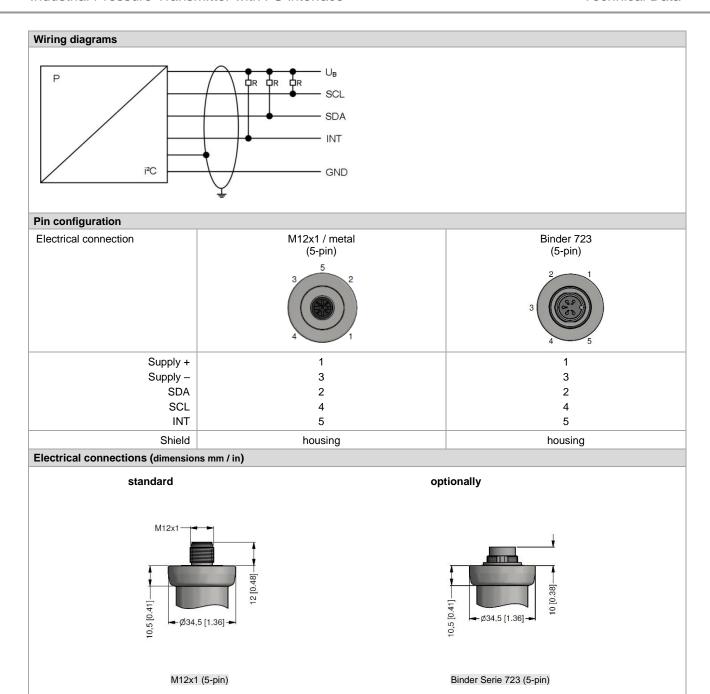




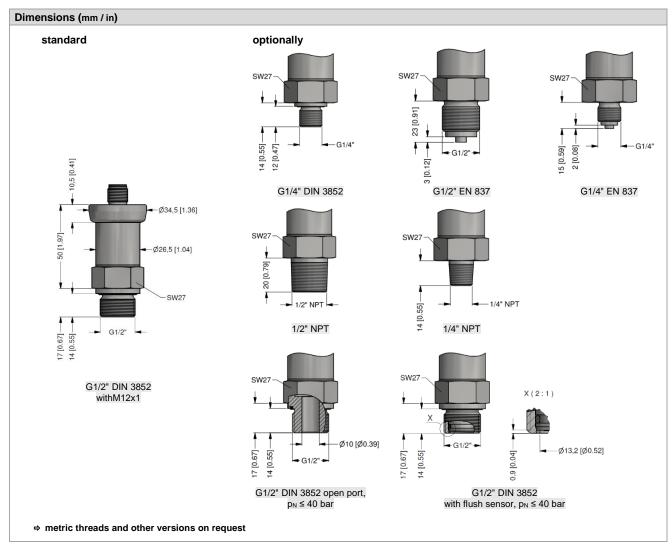


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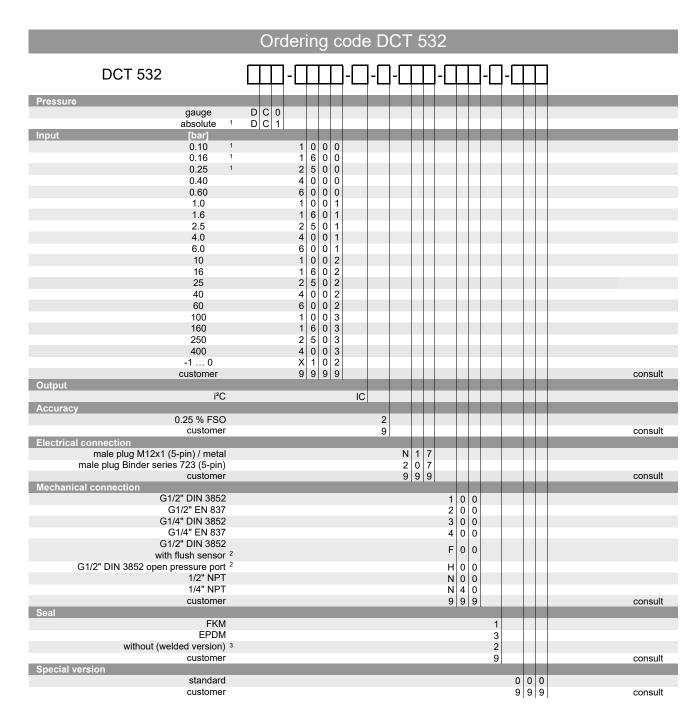
Input pressure range					I	T	1					T				
Nominal pressure gauge	[bar]	-10	0.10	0.16	0.25	0.40	0.60	1	1.6	2.5	4	6				
Nominal pressure abs.	[bar]	-	-	-	-	0.40	0.60	1	1.6	2.5	4	6				
Overpressure	[bar]	5	0,5	1	1	2	5	5	10	10	20	40				
Burst pressure ≥	[bar]	7.5 1.5 1.5		1.5	3	7.5	7.5	15	15	15 25						
Nominal pressure	[bar]	10	16		25	40	60	100	16	0	250					
gauge / abs. Overpressure	[bar]	40	80		30	105	210	600	60		1000					
Burst pressure ≥	[bar]	50			-	210	420				1250					
Vacuum resistance	[Dai]	50 120 120 210 420 1000 1000 1250 p _N ≥ 1 bar: unlimited vacuum resistance										1250				
vacuum resistance		$p_N \le 1$ bar: on request														
Output signal / Supply																
i ² C		V _S = 3.5	. 5.5 Vnc													
Performance		13 010 11		<u>, </u>												
Accuracy ¹		≤ ± 0.25 %	έ ESΩ													
Max. I/O current	10 mA	0130														
Long term stability	≤ ± 0.1 %	FSO /w	ar at rofe	rence c	onditions											
Response time	1.5 msec					us fragus	ncv)									
Measuring rate	500 Hz	ı uanəm	ission till	ic (depe	nung on L	us neque	, 110y <i>j</i>									
¹ accuracy according to IEC 60	0770 – Jir		stment (n	on-linearit	, hystere	sis reneata	hility)									
Thermal effects (offset a			Sanon (II	on micanty	, riystere.	oro, ropeata	omry)									
Tolerance band	iiu spai	_	/ ESO													
		≤ ± 0.75 % FSO -20 85 °C														
in compensated range	_	-20 05	U													
Permissible temperature	5	05 405	00													
Medium		-25 125														
Electronics / environment																
Storage		-40 85	1 -0													
Electrical protection		l														
Short-circuit protection		permaner														
Reverse polarity protection	า	by exchanged supply connections no damage, but also no function by exchanged communication with signal lines it can come according to constellation to damages.														
Electromagnetic compatibility	ility	emission	and imm	unity acc	ording to	EN 6132	6									
Mechanical stability																
Vibration		10 g RMS	(25 2	000 Hz)		acco	ording to E	DIN EN 60	068-2-6							
Shock	500 g / 1 i		,		acco	ording to E	DIN EN 60	068-2-27								
Materials																
Pressure port / Housing		stainless	steel 1.4	404 (316	L)											
Seals (media wetted)		stainless steel 1.4404 (316 L) standard: FKM														
Coale (modia wellou)		options: EPDM														
				l version	² (for p _N :	≤ 40 bar)				othe	ers on red	uest				
Diaphragm		stainless	steel 1.4	435 (316	L)											
Media wetted parts		pressure														
² welded version only with pres	ssure por	· · · · · · · · · · · · · · · · · · ·				bar										
Miscellaneous																
Current consumption		< 15 mA														
Weight		approx. 14	40 g													
Ingress protection		IP 67	. 3													
Installation position		any ³														
Operational life		100 millio	n load cv	cles												
CE-conformity		EMC Dire				2014	4/30/EU									
···-,	Pressure		nt Directi	ve:			module A)	4								
³ Pressure transmitters are can deviations in the zero point for ⁴ This directive is only valid for	or pressu	n a vertical po re ranges p _N	osition wit ≤ 1 bar.	h the press	sure conn	ection dowr				stallation	there can	be sligh				







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
Configuration code (has to be defined with the order)				-		-		-		-		-					



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¹ absolute pressure possible from 0.4 bar

 $^{^2\,}$ not possible for nominal pressure $\,p_N^{}>40\,$ bar

³ welded version only with pressure ports according to EN 837 and NPT, possible for $p_N \le 40$ bar