



Nominal pressure

from 0 ... 100 mbar up to 0 ... 60 bar

Output signal

RS485 with Modbus RTU protocol

Special characteristic

- ▶ diaphragm ceramics 99.9 % Al₂O₃
- ▶ high long-term stability
- ▶ reset function

Optional versions

- ▶ different kinds of inch threads
- ▶ pressure port in PVDF or PP-HT
for aggressive media on request

DCT 571

Industrial Pressure Transmitter with RS485 Modbus RTU

Ceramic Sensor

accuracy according to IEC 60770:
standard: 0.35 % FSO
option: 0.25 % FSO

The pressure transmitter DCT 571 was developed for applications in plant and mechanical engineering or in laboratory technology, e.g. designed to measure pressures or levels of pasty, contaminated or aggressive media.

The self-developed pressure sensor made of 99.9% pure ceramic is characterized by a high overload capacity, as well as temperature and media resistance.

The integrated RS 485 interface and the MODBUS RTU protocol used ensure reliable and robust data transmission, which also works smoothly over long distances.

Preferred areas of use



Plant and machine engineering



Laboratory techniques



Water



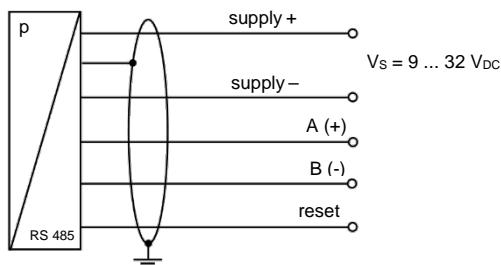
Aggressive media



Modbus®

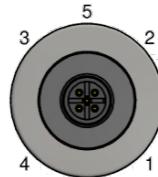
Wiring diagram

Modbus RTU



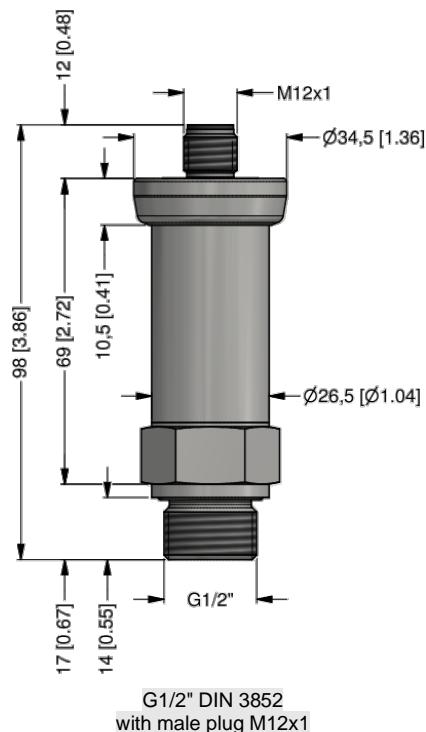
Pin configuration / electrical connection

Electrical connection	M12x1, metal (5-pin)
Supply +	1
Supply -	3
A (+)	2
B (-)	4
Reset	5
Shield	plug housing

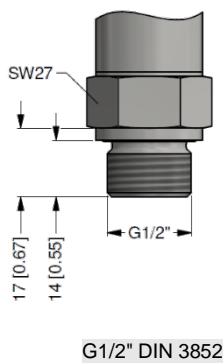


Dimensions / mechanical connection (mm / in)

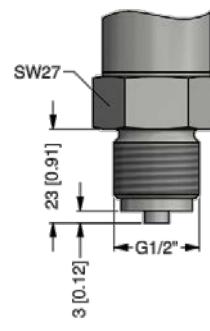
standard



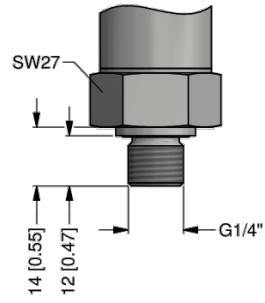
option



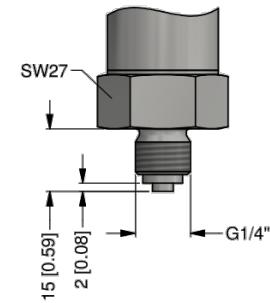
G1/2" DIN 3852



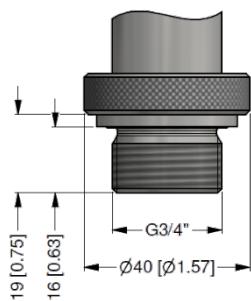
G1/2" EN 837



G1/4" DIN 3852



G1/4" EN 837



G3/4" DIN 3852 flush

⇒ metric threads and other versions on request

DCT 571

Industrial Pressure Transmitter with RS485 Modbus RTU

Technical Data

Configuration Modbus RTU						
Standard configuration	001	-	1	-	-	1
Address						
Address	001					
	...					
	247					
Baud Rate						
4800 Bd			0			
9600 Bd			1			
19200 Bd			2			
38400 Bd			3			
Parity						
None						0
Odd						1
Even						2
Configuration code (to specify with order)		-		-	-	

Ordering code DCT 571

DCT 571

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Pressure		
gauge in bar	2 8 5	
gauge in mH ₂ O	2 8 6	
Input	[mH ₂ O]	[bar]
1.0	0.1	1 0 0 0
1.6	0.16	1 6 0 0
2.5	0.25	2 5 0 0
4.0	0.40	4 0 0 0
6.0	0.60	6 0 0 0
10	1.0	1 0 0 1
16	1.6	1 6 0 1
25	2.5	2 5 0 1
40	4.0	4 0 0 1
60	6.0	6 0 0 1
100	10	1 0 0 2
160	16	1 6 0 2
250	25	2 5 0 2
400	40	4 0 0 2
600	60	6 0 0 2
customer	9 9 9 9	consult
Output	RS485 Modbus RTU	
	L	5
Accuracy		
standard	0.35 % FSO	
option	0.25 % FSO	
customer	9	
Electrical connection		
male plug M12x1 (5-pin) / metal	N 1 1	
customer	9 9 9	consult
Mechanical connection	¹	
G1/2" DIN 3852	1 0 0	
G1/2" EN 837	2 0 0	
G1/4" DIN 3852	3 0 0	
G1/4" EN 837	4 0 0	
G3/4" with flush sensor	K 0 0	
customer	9 9 9	
Seal		
FKM	1	
EPDM	3	
FFKM	7	
customer	9	
Pressure port		
stainless steel 1.4404 (316L)	1	
PVDF ²	B	
PP-HT ²	R	
customer	9	
Diaphragm		
ceramics Al ₂ O ₃ 99,9 %	C	
customer	9	
Special version		
standard	0 0 0	
customer	9 9 9	

¹ metric threads and others on request

² only for mechanical connection G3/4"; for pressure port in PVDF or PP-HT the operation medium temperature is -30 ... 60 °C