

## -1...1000 bar



E2 / D2

BEST  
SELLER

C2

## Your advantages

Type	E2 / D2 / C2		
	• Suitable for aggressive media	• Illuminated display	• Robust and compact design with edge protection

## Technical data

Type	E2	D2	C2
Pressure ranges	Between -1...1000 bar		
Accuracy (full scale)	0.5 %	0.1 %	0.05 %
Adjustment options			
Linearisation	Via adapter		
Tare / Zero	✓		
Selectable units			
Pressure	bar, mbar, kPa, MPa, PSI, kg/cm <sup>2</sup> , mH <sub>2</sub> O, inH <sub>2</sub> O		
Features			
Measuring inputs	1 x direct		
Display			
Display	Multi-functional LCD, 4 ½ digit, with illumination		
Functions	Bargraph, display filter, min / max value		
Measuring rate			
Standard	10 ms		
Peak	10 ms		
Process connection			
Thread	G¼		
Material	Stainless steel 1.4404		
Medium temperature	-20...80 °C		
For aggressive media	✓		
Housing			
Degree of protection	IP67		
Dimension	Ø 80 mm, T=30 mm H=100 mm		
Material	Zinc casting		
Operating temperature	0...50 °C		
Weight	540 g		
Power supply			
Auto-off function	✓		
Battery type	2x 1,5 V AA		
Battery operation	1500 h		
Approvals			
	DNV GL type approval Certificate No. TAA00001CJ		

## Certificate (optional)

DAkS certificate  
Works certificate

Order code				
Type	Accuracy (full scale)	Pressure range	Resolution	Order number
E2	0.5 %	-1...3 bar	1 mbar	EME8REF-E2-0003
		-1...5 bar	1 mbar	EME8REF-E2-0005
		-1...10 bar	1 mbar	EME8REF-E2-0010
		-1...20 bar	1 mbar	EME8REF-E2-0020
		-1...40 bar	10 mbar	EME8REF-E2-0040
		-1...60 bar	10 mbar	EME8REF-E2-0060
		0...100 bar	10 mbar	EME8REF-E2-0100
		0...160 bar	10 mbar	EME8REF-E2-0160
		0...250 bar	100 mbar	EME8REF-E2-0250
		0...400 bar	100 mbar	EME8REF-E2-0400
		0...700 bar	100 mbar	EME8REF-E2-0700
		0...1000 bar	100 mbar	EME8REF-E2-1000
		D2	0.1 %	-1...3 bar
-1...5 bar	1 mbar			EME8REF-D2-0005
-1...10 bar	1 mbar			EME8REF-D2-0010
-1...20 bar	1 mbar			EME8REF-D2-0020
-1...40 bar	10 mbar			EME8REF-D2-0040
-1...60 bar	10 mbar			EME8REF-D2-0060
0...100 bar	10 mbar			EME8REF-D2-0100
0...160 bar	10 mbar			EME8REF-D2-0160
0...250 bar	100 mbar			EME8REF-D2-0250
0...400 bar	100 mbar			EME8REF-D2-0400
0...700 bar	100 mbar			EME8REF-D2-0700
0...1000 bar	100 mbar			EME8REF-D2-1000
C2	0.05 %			-1...10 bar
		-1...20 bar	1 mbar	EME8REF-C2-0020
		-1...40 bar	10 mbar	EME8REF-C2-0040
		-1...60 bar	10 mbar	EME8REF-C2-0060
		0...100 bar	10 mbar	EME8REF-C2-0100
		0...160 bar	10 mbar	EME8REF-C2-0160
		0...250 bar	100 mbar	EME8REF-C2-0250
		0...400 bar	100 mbar	EME8REF-C2-0400
		0...700 bar	100 mbar	EME8REF-C2-0700
		0...1000 bar	100 mbar	EME8REF-C2-1000

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Type		Order number
E2	Accuracy 0,5 %, pressure range -1...3 bar, resolution 1 mbar	EME8REF-E2-0003
	Accuracy 0,5 %, pressure range -1...40 bar, resolution 10 mbar	EME8REF-E2-0040
	Accuracy 0,5 %, pressure range 0...700 bar, resolution 100 mbar	EME8REF-E2-0700
	Accuracy 0,5 %, pressure range 0...1000 bar, resolution 100 mbar	EME8REF-E2-1000
D2	Accuracy 0,1 %, pressure range -1...3 bar, resolution 1 mbar	EME8REF-D2-0003
	Accuracy 0,1 %, pressure range -1...40 bar, resolution 10 mbar	EME8REF-D2-0040
	Accuracy 0,1 %, pressure range 0...700 bar, resolution 100 mbar	EME8REF-D2-0700
	Accuracy 0,1 %, pressure range 0...1000 bar, resolution 100 mbar	EME8REF-D2-1000

## -1...1000 bar




## Your advantages

Type	E-Ex	D-Ex	L-Ex
	<ul style="list-style-type: none"> <li>• For use in potentially explosive atmospheres</li> <li>• Suitable for aggressive media</li> <li>• Oil- and grease-free version available</li> <li>• Robust and compact design with edge protection</li> </ul>		<ul style="list-style-type: none"> <li>• Like E-Ex / D-Ex</li> <li>• Additional PC interface for direct data transfer</li> <li>• Higher accuracy</li> </ul>

## Technical data

Type	E-Ex	D-Ex	L-Ex
<b>Pressure ranges</b>	Between 0...300 bar	Between -1...700 bar	Between -1...1000 bar
<b>Accuracy (full scale)</b>	0.5 %	0.1 %	0.05 %
<b>Adjustment options</b>			
<b>Tare / Zero</b>	✓		
<b>Selectable units</b>			
<b>Pressure</b>	bar	bar, mbar, hPa, kPa, MPa, PSI, kp/cm <sup>2</sup>	bar, mbar, hPa, kPa, MPa, PSI, mmHg, inHg, cmH <sub>2</sub> O, mH <sub>2</sub> O, inH <sub>2</sub> O, ftH <sub>2</sub> O, Kp/cm <sup>2</sup>
<b>Features</b>			
<b>Measuring inputs</b>	1 x direct		1 x direct
<b>Oil- and grease-free version (optional)</b>	✓ (< 200 bar)		
<b>PC connection</b>			RS 485
<b>Display</b>			
<b>Display</b>	Multi-functional LCD, 4 digit		Multi-functional LCD, 5 digit
<b>Min / Max value</b>	✓		✓
<b>Measuring rate</b>			
<b>Standard</b>	500 ms		
<b>Process connection</b>			
<b>Thread</b>	G $\frac{1}{4}$ / H16 UNF		G $\frac{1}{4}$
<b>Material</b>	Stainless steel 1.0718 zinc-plated / Stainless steel 1.4435		Stainless steel 1.4435
<b>Medium temperature</b>	0...50 °C		0...50 °C
<b>For aggressive media</b>	✓		✓

General data			
Type	E-Ex	D-Ex	L-Ex
<b>Housing</b>			
<b>Degree of protection</b>	IP65		IP65 (Front) / IP54
<b>Dimension</b>	Ø 70 mm, T=30 mm H=100 mm		Ø 80 mm, T=40 mm H=120 mm
<b>Material</b>	ABS plastic		ABS plastic
<b>Operating temperature</b>	0...50 °C		0...50 °C
<b>Weight</b>	130 g		210 g
<b>Power supply</b>			
<b>Auto-off function</b>	✓		✓
<b>Battery type</b>	1x 3 VCR		1x 3 VCR
<b>Battery operation</b>	1000 h		2000 h
<b>Approvals</b>			
	Ex II 1G EEx ia II C T5/T6		Ex II 2G Ex ia II C T6
<b>Certificates (optional)</b>			
DAkkS certificate Works certificate			

Order code				
Type	Accuracy (full scale)	Pressure range	Resolution	Order number
<b>E-Ex</b>	0.5 %	-1...30 bar	10 mbar	EME8REF-E-EX30
		0...300 bar	100 mbar	EME8REF-E-E300
<b>D-Ex</b>	0.1 %	-1...3 bar	1 mbar	EME8REF-D-EX03
		-1...30 bar	10 mbar	EME8REF-D-EX30
		-1...60 bar	10 mbar	EME8REF-D-EX60
		0...300 bar	100 mbar	EME8REF-D-EX300
		0...700 bar	200 mbar	EME8REF-D-EX700
<b>L-Ex</b>	0.05 %	-1...2 bar	0.1 mbar	EME8REF--12EL-5
		-1...10 bar	1 mbar	EME8REF--01EL-5
		-1...20 bar	1 mbar	EME8REF-03EL-5
		0...200 bar	10 mbar	EME8REF-02EL-5
		0...400 bar	50 mbar	EME8REF-04EL-5
		0...700 bar	100 mbar	EME8REF-07EL-5
		0...1000 bar	100 mbar	EME8REF-10EL-5

## -1...2000 bar



## Your advantages

Type	J
	<ul style="list-style-type: none"> <li>• Suitable for aggressive media</li> <li>• For relative pressure and vacuum</li> <li>• Data logger and PC interface for direct data transfer</li> </ul>

## Technical data

Type	J
Pressure ranges	Between 0...500 mbar and between -1...2000 bar
Accuracy (full scale)	Max. 0.1 %
Adjustment options	
Linearisation	6 points
Tare / Zero	✓
Selectable units	
Pressure	bar, mbar, hPa, kPa, MPa, PSI, mmHg, inHg, cmH <sub>2</sub> O, mH <sub>2</sub> O, inH <sub>2</sub> O, kg/cm <sup>2</sup>
Temperature	°C, °F
Features	
Measuring inputs	1 x direct
PC interface	USB (B)
Data memory	
Number of memory	660 000 values (auto)
Recording interval	1 s...10 h
Recording duration	1 min...1000 h
Data sets	Pressure / Temperature
Display	
Display	Multi-functional LCD, 4 digit, with illumination
Functions	Bargraph, display filter, min / max values
Measuring rate	
Standard	100 ms
Process connection	
Thread	G½
Material	Stainless steel 1.4542
Medium temperature	-10...70 °C
For aggressive media	✓

General data	
<b>Type</b>	J
<b>Housing</b>	
<b>Degree of protection</b>	IP65 (front) / IP40
<b>Dimension</b>	86 x 86 mm, T=40 mm H=135 mm
<b>Material</b>	Aluminium
<b>Operating temperature</b>	-10...70 °C
<b>Weight</b>	900 g
<b>Power</b>	
<b>Auto-off function</b>	✓
<b>Battery type</b>	internal accu
<b>Ext. power</b>	USB
<b>Battery operation</b>	2000 h
<b>Certificate (optional)</b>	
DAkkS certificate	
Works certificate	

Order code					
Type	Accuracy (full scale)				
J	0.2%	EME8AE	JT		
	0.1%	EME8AE	JU		
<b>Certificate</b>					
Without certificate				0	
SIT certificate				Z	
<b>Vacuum/Relative</b>					
Relative pressure					R
Vacuum					V
<b>Pressure range</b>		<b>Resolution</b>			
0...100 mbar	0.1 mbar				00B1
0...250 mbar	0.1 mbar				0B25
0...500 mbar	0.1 mbar				00B5
(-1)/0...1 bar	1 mbar				001B
(-1)/0...2.5 bar	1 mbar				02B5
(-1)/0...5 bar	1 mbar				005B
(-1)/0...10 bar	10 mbar				010B
(-1)/0...20 bar	10 mbar				020B
(-1)/0...40 bar	10 mbar				040B
(-1)/0...60 bar	10 mbar				060B
0...100 bar	100 mbar				100B
0...250 bar	100 mbar				250B
0...350 bar	100 mbar				350B
0...500 bar	100 mbar				500B
0...700 bar	100 mbar				700B
0...1000 bar	1 bar				1KB0
0...1500 bar	1 bar				1KB5
0...2000 bar	1 bar				2KB0
Customer-specific measuring range*					XXXX
<b>Interface</b>					
USB					S
<b>Example order number</b>		EME8AE	JT	0	R
					00B1
					S

\* Further measuring ranges on request.

## -1...2500 bar



## Your advantages

Type	P
	<ul style="list-style-type: none"> <li>• Suitable for aggressive media</li> <li>• For relative pressure and vacuum</li> <li>• PC interface for direct data transfer</li> </ul>

## Technical data

Type	P
Pressure ranges	Between 0...500 mbar and between -1...2500 bar
Accuracy (full scale)	0.2 %, 0.5 % or 0.05 %
Adjustment options	
Linearisation	6 point
Tare / Zero	✓
Selectable units	
Pressure	bar, mbar, kPa, MPa, PSI
Features	
Measuring inputs	1 x direct
PC interface (optional)	RS232
Built-in version (optional)	✓
Display	
Display	Multi-functional LCD, 4 digit (0.5 % / 0.2 %), 5 digit (0.05 % / 0.025 %)
Functions	Bargraph, display filter, min / max values
Measuring rate	
Standard	100 ms
Process connection	
Thread	G½
Material	Stainless steel 1.4542
Medium temperature	0...50 °C
For aggressive media	✓

General data	
Type	P
Housing	
Degree of protection	IP65 (front) / IP40
Dimension	86 x 86 mm, T=40 mm H=135 mm
Material	Aluminium
Operating temperature	0...50 °C
Weight	900 g
Power	
Auto-off function	✓
Battery type	2 x 1,5 V AAA
Battery operation	8000 h
Certificate (optional)	
DAkkS certificate	
Works certificate	

Order code						
Type	Accuracy (full scale)					
P	0,5 %			EME8REF	P5	
	0,2 %			EME8REF	P2	
	0,05 %			EME8REF	P0	
Zero point						
0 bar						R
-1 bar						V
Pressure range	Resolution	0,5 %	0,2 %	0,05 %		
0...500 mbar		1 mbar	0,1 mbar	0.1 mbar		500M
(-1)/0...1 bar		1 mbar	1 mbar	0.1 mbar		001B
(-1)/0...2.5 bar		1 mbar	1 mbar	0.5 mbar		003B
(-1)/0...5 bar		1 mbar	1 mbar	0.5 mbar		005B
(-1)/0...10 bar		10 mbar	10 mbar	1 mbar		010B
(-1)/0...20 bar		10 mbar	10 mbar	2 mbar		020B
(-1)/0...40 bar		10 mbar	10 mbar	5 mbar		040B
(-1)/0...60 bar		10 mbar	10 mbar	5 mbar		060B
0...100 bar		100 mbar	100 mbar	10 mbar		100B
0...250 bar		100 mbar	100 mbar	20 mbar		250B
0...350 bar		100 mbar	100 mbar	50 mbar		350B
0...500 bar		100 mbar	100 mbar	50 mbar		500B
0...700 bar		100 mbar	100 mbar	50 mbar		700B
0...1000 bar		1 bar	1 bar	100 mbar		01KB
0...1500 bar		1 bar	1 bar	200 mbar		15KB
0...2000 bar		1 bar	1 bar	500 mbar		02KB
0...2500 bar		1 bar	1 bar			25KB
Interface						
Without						0
RS 232						S
Example order number				EME8REF	P5	R 500M 0

