

Edge CDG025D2 with EtherCAT 0.1 ... 1000 托 / 毫巴

Edge™ CDG025D2 - Unheated with EtherCAT - Compact Gauge

带有 EtherCAT 的 INFICON 温度补偿型 Edge CDG025D2 电容膜片式真空计是专为恶劣制造环境设计的极其准确的真空测量仪表。

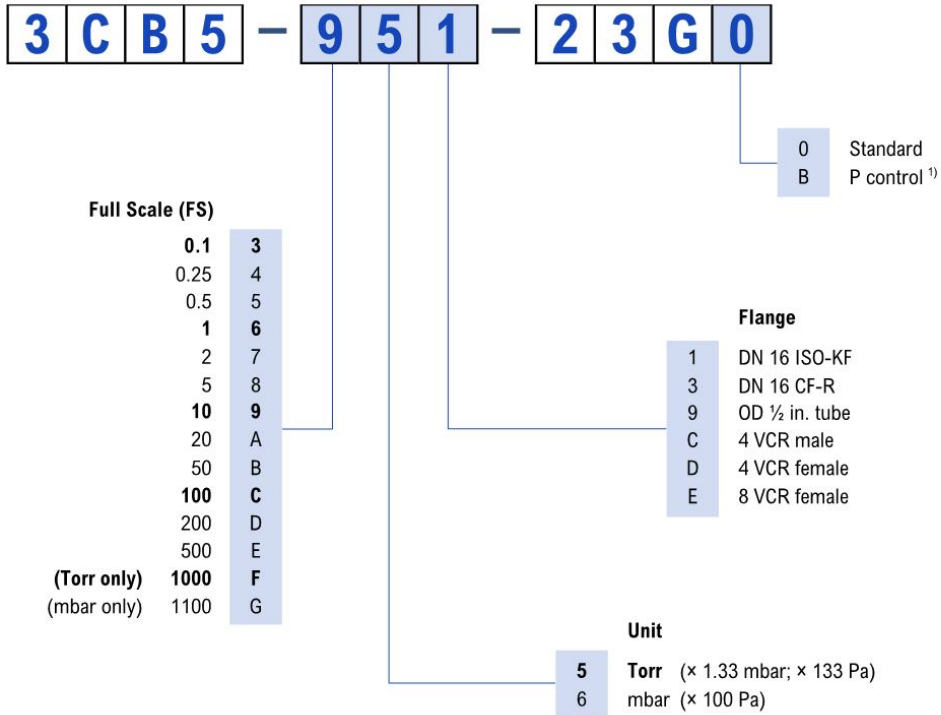
成熟的温度补偿、防腐蚀、超纯陶瓷传感器能长期提供出众的量程稳定性，而且具有无与伦比的零位稳定性。Edge 随附 INFICON 已获专利的独特传感器屏蔽，用于保护真空计，使其免受不需要的过程副产品的影响。先进的电子元件能为所有应用提供范围广泛的可配置信号调节，另外还配有 EtherCAT 现场总线接口。



好处

- 易于集成，EtherCAT，各种满刻度和法兰，标配两个设定点
- 轻松一键调零或远程信号调零指令，可调零点偏移
- 诊断端口用于快速维修和维护
- 防腐陶瓷传感器
- 卓越的长期信号稳定性
- 温度补偿
- 传感器防污染保护
- 合规性与标准：CE、EN、UL、SEMI、RoHS

ORDERING INFORMATION



1) Optimized signal filter setting for pressure control

bold = standard products

Other flange types on request.

规格

类型		1000 Torr, 1100 mbar	500 ... 10 Torr / mbar	1 Torr / mbar	0.25 Torr / mbar	0.1 Torr / mbar
精度 (1)	% of reading	0.2	0.2	0.2	0.25	0.5
温度效应						
零点	percent FS/ °C	0.005	0.005	0.015	0.02	0.02
温度效应						
满量程	% of reading / °C	0.01	0.01	0.01	0.03	0.03
压力, 最大	kPa (absolute)	400	260	260	130	130
分辨率	percent FS	0.003	0.003	0.003	0.003	0.003
最低读数	percent FS	0.01	0.01	0.01	0.01	0.01
建议的最低读数	percent FS	0.05	0.05	0.05	0.05	0.05
建议的最低控制压力	percent FS	0.5	0.5	0.5	0.5	0.5
温度						
传感器	°C	25	25	25	25	25
运行 (环境)	°C	+5 ... +50	+5 ... +50	+5 ... +50	+5 ... +50	+5 ... +50
在法兰处烘烤	°C	≤110	≤110	≤110	≤110	≤110
贮存	°C	-20 ... +65	-20 ... +65	-20 ... +65	-20 ... +65	-20 ... +65
电源电压		+14 ... +30 VDC or ±15 V (±5%)	+14 ... +30 VDC or ±15 V (±5%)	+14 ... +30 VDC or ±15 V (±5%)	+14 ... +30 VDC or ±15 V (±5%)	+14 ... +30 VDC or ±15 V (±5%)
功耗						
运行温度	W	≤3	≤1	≤1	≤1	≤1
输出信号 (模拟)	V (dc)	0 ... +10	0 ... +10	0 ... +10	0 ... +10	0 ... +10
反应时间 (2)	ms	30	30	30	130	130 / 30 (3)
保护等级		IP 40	IP 40	IP 40	IP 40	IP 40
标准						
CE 合规		EN 61000-6-2/-6- 3, EN 61010 & RoHS	EN 61000-6-2/-6- 3, EN 61010 & RoHS	EN 61000-6-2/-6- 3, EN 61010 & RoHS	EN 61000-6-2/-6- 3, EN 61010 & RoHS	EN 61000-6-2/-6- 3, EN 61010 & RoHS
ETL 认证		UL 61010-1, CSA 22.2 No.61010-1	UL 61010-1, CSA 22.2 No.61010-1	UL 61010-1, CSA 22.2 No.61010-1	UL 61010-1, CSA 22.2 No.61010-1	UL 61010-1, CSA 22.2 No.61010-1
SEMI 合规		SEMI S2	SEMI S2	SEMI S2	SEMI S2	SEMI S2

规格

类型		1000 Torr, 1100 mbar	500 ... 10 Torr / mbar	1 Torr / mbar	0.25 Torr / mbar	0.1 Torr / mbar
电气连接		D-sub, 15 pole, male	D-sub, 15 pole, male	D-sub, 15 pole, male	D-sub, 15 pole, male	D-sub, 15 pole, male
设定点						
设定点数量		2 (SP1,SP2)	2 (SP1,SP2)	2 (SP1,SP2)	2 (SP1,SP2)	2 (SP1,SP2)
设定点						
继电器触点	V (dc)	≤30	≤30	≤30	≤30	≤30
设定点						
继电器触点	A (dc)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
设定点						
滞后	percent FS	1	1	1	1	1
诊断端口						
协议		RS232-C	RS232-C	RS232-C	RS232-C	RS232-C
读数		pressure, status, ID	pressure, status, ID	pressure, status, ID	pressure, status, ID	pressure, status, ID
设置		set points, filter, zero adjust, factory reset, DC offset	set points, filter, zero adjust, factory reset, DC offset	set points, filter, zero adjust, factory reset, DC offset	set points, filter, zero adjust, factory reset, DC offset	set points, filter, zero adjust, factory reset, DC offset
暴露于真空的材料		Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁵⁾)	Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁵⁾)	Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁵⁾)	Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁵⁾)	Aluminum oxide ceramic (Al ₂ O ₃), stainless steel (AISI 316L ⁽⁵⁾)
内部容积						
内部容积 1/2" 管	cm ³ (in. ³)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)
内部容积 DN 16 ISO KF	cm ³ (in. ³)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)
内部容积 DN 16 CF-R	cm ³ (in. ³)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)
内部容积 8 VCR®	cm ³ (in. ³)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)	4.2 (0.26)
重量						
重量 1/2" 管	g	837	837	837	837	837
重量 DN 16 ISO KF	g	852	852	852	852	852
重量 DN 16 CF-R	g	875	875	875	875	875
重量 8 VCR®	g	897	897	897	897	897
EtherCAT						

规格

类型		1000 Torr, 1100 mbar	500 ... 10 Torr / mbar	1 Torr / mbar	0.25 Torr / mbar	0.1 Torr / mbar
协议 EtherCAT		protocol specialized for EtherCAT	protocol specialized for EtherCAT	protocol specialized for EtherCAT	protocol specialized for EtherCAT	protocol specialized for EtherCAT
通讯标准		ETG.5003.1 S (R) V1.1.0 Common Device ProfileETG.50 03.2080 S (R) V1.3.0 Specific Device Profile: Vacuum Gauge	ETG.5003.1 S (R) V1.1.0 Common Device ProfileETG.50 03.2080 S (R) V1.3.0 Specific Device Profile: Vacuum Gauge	ETG.5003.1 S (R) V1.1.0 Common Device ProfileETG.50 03.2080 S (R) V1.3.0 Specific Device Profile: Vacuum Gauge	ETG.5003.1 S (R) V1.1.0 Common Device ProfileETG.50 03.2080 S (R) V1.3.0 Specific Device Profile: Vacuum Gauge	ETG.5003.1 S (R) V1.1.0 Common Device ProfileETG.50 03.2080 S (R) V1.3.0 Specific Device Profile: Vacuum Gauge
节点地址		Explicit Device Identification	Explicit Device Identification	Explicit Device Identification	Explicit Device Identification	Explicit Device Identification
物理层		100BASE-Tx (IEEE 802.3)	100BASE-Tx (IEEE 802.3)	100BASE-Tx (IEEE 802.3)	100BASE-Tx (IEEE 802.3)	100BASE-Tx (IEEE 802.3)
数字功能读取		pressure, status, ID	pressure, status, ID	pressure, status, ID	pressure, status, ID	pressure, status, ID
数字功能设置		set points, filter, zero adjust, reset, DC offset	set points, filter, zero adjust, reset, DC offset	set points, filter, zero adjust, reset, DC offset	set points, filter, zero adjust, reset, DC offset	set points, filter, zero adjust, reset, DC offset
过程数据		Fixed PDO mapping and configurable PDO mapping	Fixed PDO mapping and configurable PDO mapping	Fixed PDO mapping and configurable PDO mapping	Fixed PDO mapping and configurable PDO mapping	Fixed PDO mapping and configurable PDO mapping
邮箱 (CoE)		SDO requests, responses and information	SDO requests, responses and information	SDO requests, responses and information	SDO requests, responses and information	SDO requests, responses and information
EtherCAT 连接器		RJ45, 8-pin (socket), IN and OUT	RJ45, 8-pin (socket), IN and OUT	RJ45, 8-pin (socket), IN and OUT	RJ45, 8-pin (socket), IN and OUT	RJ45, 8-pin (socket), IN and OUT
电缆		shielded Ethernet CAT5e or higher	shielded Ethernet CAT5e or higher	shielded Ethernet CAT5e or higher	shielded Ethernet CAT5e or higher	shielded Ethernet CAT5e or higher
EtherCAT 数据率	Kbps	100000	100000	100000	100000	100000
EtherCAT 电缆长度	m (ft.)	≤100 (330)	≤100 (330)	≤100 (330)	≤100 (330)	≤100 (330)

(1) 非线性，迟滞，在 25 °C 环境温度中的可重复性，2 小时工作后无温度影响。

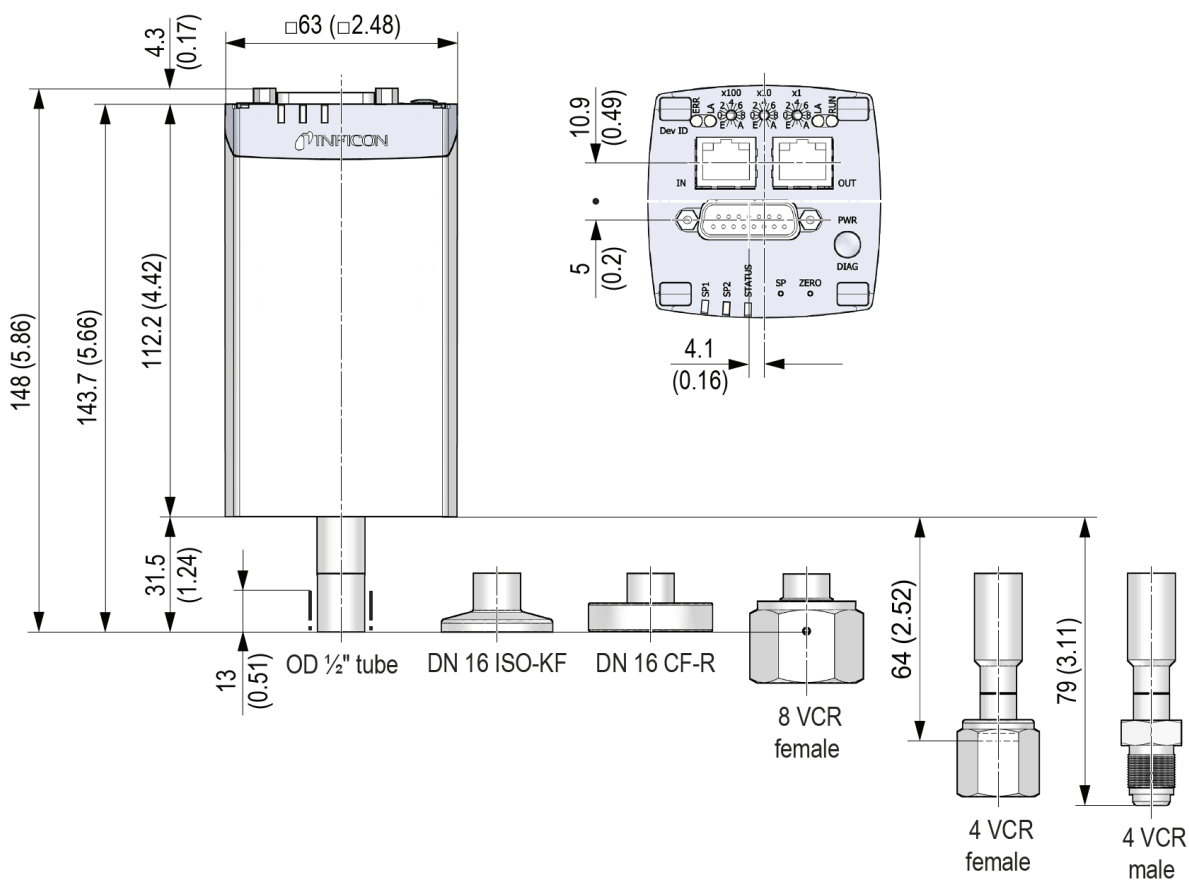
(2) 提高 10 ... 90 % FS

(3) 仅用于压力控制类型

(4) 18% 铬，10% 镍，3% 钼，69% 铁

尺寸

mm (inch)



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