

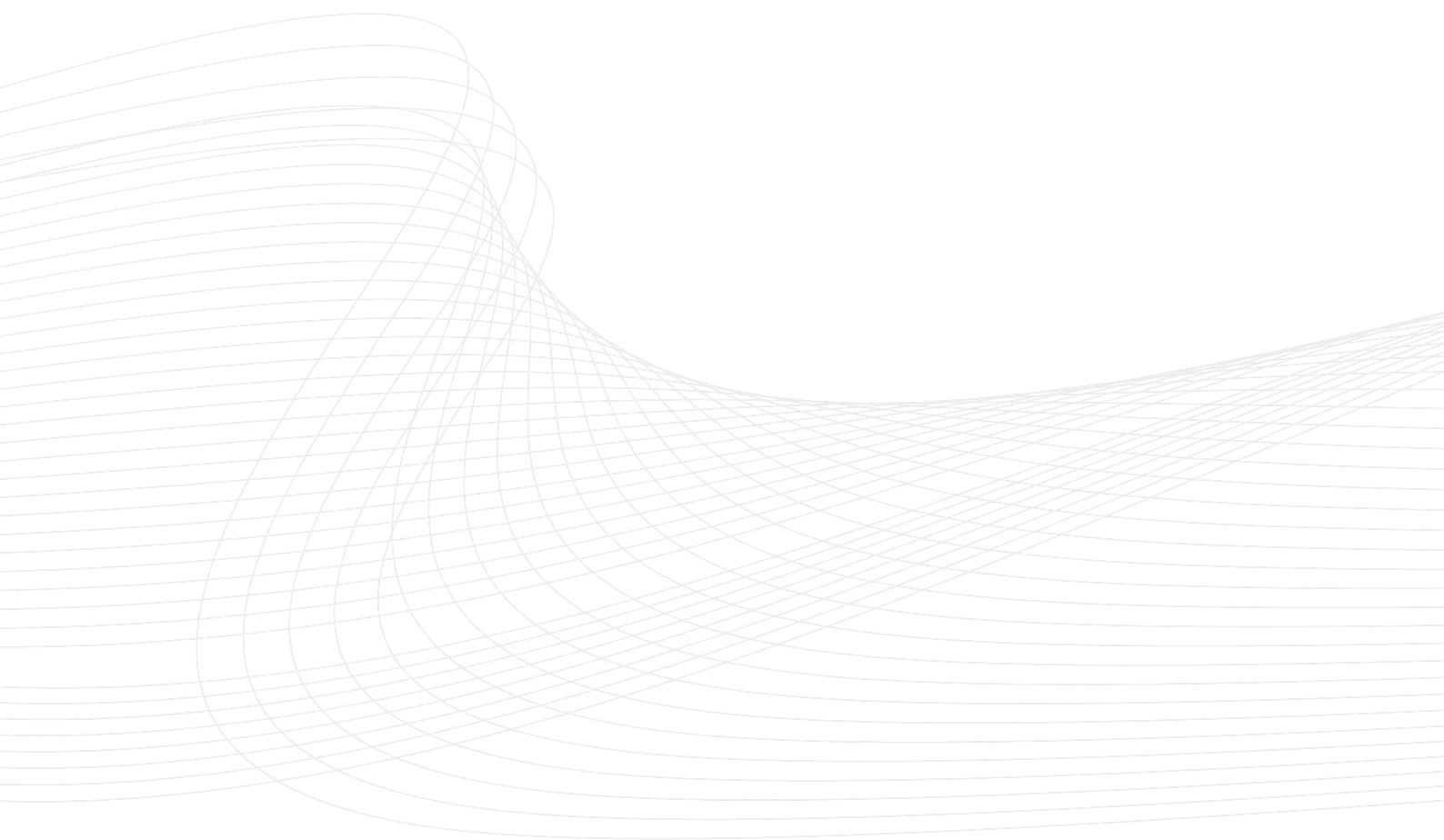
2019-2020

食品卫生行业 压力与温度仪表



更好的传感器来自道威斯顿！

既专业又可靠！



公司介绍

道威斯顿(中国)有限公司是DOWESTON GROUP LIMITED在中国的全资子公司，DOWESTON总部设在美国密苏里州斯普林菲尔德市，致力于自动化控制传感器及仪表的研发、制造、销售;并提供设计咨询、设备成套、管理控制及资料搜集系统(SCADA)的开发与研究的国际化管理企业。

丰富的产品选择、迅速的交货期、强大的技术支持、持续的研发能力、所有这一切保证了能为您的机器和生产系统提供高质量、可靠品质的产品，以满足客户对于流量、压力、液位、温度、水质分析的精确测量要求。

客户可登陆www.doweston.cn的中文网站了解更多信息，包括产品适用参数、尺寸图及安装图等，客户也可以通过电话或邮件在工作日进行技术咨询。

COMPANY INTRODUCTION

PD310SQ卫生型压力变送器

PD310SQ单晶硅卫生型压力变送器采用道威斯顿在世界上优秀的单晶硅压力传感器技术与专利封装工艺，精心打造而成的最强壮卫生型压力变送器。秉承全面满足最恶劣使用场合的设计理念，PD310SQ单晶硅卫生型压力变送器采用全隔离密封结构消除了湿度影响，适用于恶劣的潮湿清洗场合；双膜片过载保护结构实现最高承受压力42MPa，适用于恶劣的压力过载场合；耐瞬变电压满足四级标准（差模电压：2000V，共模电压：4000V），适用于恶劣的浪涌电压场合；七段温区20个线性点高达160个压力标定点，适用于恶劣的温度变化场合，这些领先的制造工艺，重新定义了卫生型压力变送器的最高品质。

高性能PD310SQ卫生型压力变送器

铸造最强壮卫生型压力变送器，引领卫生场合压力测量之潮流。

Natural strong stability,
handle easily in a diverse working conditions

天生强壮稳定，久经压力考验



独创专利的高性能单晶硅压力传感器

双膜片过载保护结构，从容应对高过载考验，
隔离透气腔体设计，彻底防止冷凝及避免对介质产生污染。



专用集成电路与表面封装技术的信号变送模块

按键参数操作功能友好，快速显示测量数据，
最高可达160个压力标定点，确保测量的极高精度。



丰富齐全的过程连接

ISO228、DIN3256等齐全的全球标准或行业标准过程连接，
精湛的不锈钢焊技术和表面处理工艺，符合国际卫生标准。



坚固耐用的不锈钢保护壳

坚固的一体成型不锈钢外壳确保长期的使用寿命，
不锈钢表面粗糙度 $Ra \leq 0.4\mu m$ ，符合国际无菌标准。



药品制剂 · 生物制药 · 化妆品



PD310SQ单晶硅卫生型压力变送器

SMP858-TSF P iezoresistive m onocrystalline s ilicon s anitary pressure transmitter



Measuring range: Gauge, 10kPa~1MPa
Absolute pressure, 10kPa ~ 1MPa
量程范围: 表压, 10kPa ~ 1MPa
绝压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD310SQ单晶硅卫生型压力变送器

SMP858-TSF P iezoresistive m onocrystalline s ilicon s anitary pressure transmitter



Measuring range: Gauge, 10kPa~1MPa
Absolute pressure, 10kPa ~ 1MPa
量程范围: 表压, 10kPa ~ 1MPa
绝压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD310SQ单晶硅卫生型压力变送器

SMP858-TSF P iezoresistive m onocrystalline s ilicon s anitary pressure transmitter



Measuring range: Gauge, 10kPa~1MPa
Absolute pressure, 10kPa ~ 1MPa
量程范围: 表压, 10kPa ~ 1MPa
绝 压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD310SQ单晶硅卫生型压力变送器

SMP858-TSF P iezoresistive m onocrystalline s ilicon s anitary pressure transmitter



Measuring range: Gauge, 10kPa~1MPa
Absolute pressure, 10kPa ~ 1MPa
量程范围: 表压, 10kPa ~ 1MPa
绝 压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

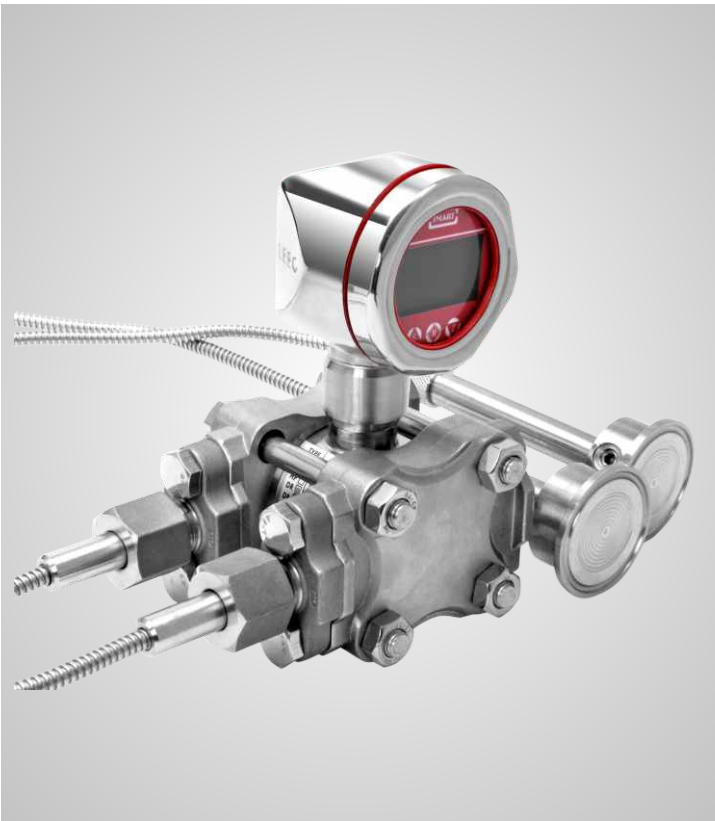
Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD750WQ单晶硅卫生型差压变送器

SMP858-DSF P iezoresistive m onocrystalline s ilicon s anitary differential pressure transmitter



Measuring range: Differential pressure, 10kPa~1MPa
量程范围: 差压, 10kPa ~ 1MPa

Output s ignal: 4~20mA, 4~20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process c onnection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD310SQ单晶硅卫生型液位变送器

SMP858-TSF P iezoresistive m onocrystalline s ilicon s anitary level transmitter



Measuring range: Gauge, 3kPa~20kPa
量程范围: 表压, 3kPa ~ 20kPa

Output s ignal: 4~20mA, 4~20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process c onnection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

TA-300SQ铂电阻卫生型温度变送器

LG200-FRF P platinum resistance sanitary temperature transmitter



Measuring range: -200~600°C
量程范围: -200 ~ 600°C

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO02852 Clamp(卡箍)
过程连接

TA-300SQ铂电阻卫生型温度变送器

LG200-FRF P platinum resistance sanitary temperature transmitter



Measuring range: -200~600°C
量程范围: -200 ~ 600°C

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO02852 Clamp(卡箍)
过程连接



食品 · 啤酒 · 乳 品 · 饮料 · 果汁



PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter

PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: DIN11851 DN25、40、50 Joint nut(联合螺母)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: SANS or IDF DN1-1/2", DN2" Joint nut(联合螺母)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD210SQ散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: DRD Flange(DRD法兰)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: Tri-Clamp, DIN32676, ISO2852 Clamp(卡箍)
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



PD210SQ扩散硅卫生型压力变送器

SMP858-TLD Piezoresistive silicon sanitary pressure transmitter



Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: G1", G1-1/2" Taper-face sealing, No gasket
过程连接: 锥面密封, 无垫片

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

Measuring range: Gauge, 10kPa~2MPa
Absolute pressure, 10kPa~2MPa
量程范围: 表压, 10kPa~2MPa
绝压, 10kPa~2MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: G1", G1-1/2"
过程连接

Application: Pharmacy, Food, Milk, Beer, Beverage, Juice...
用途描述: 制药、食品、乳品、啤酒、饮料、果汁...

TA-200SQ铂电阻紧凑型温度变送器

LG200-DRD Platinum resistance standard temperature transmitter



Measuring range: -200~600°C
量程范围: -200~600°C

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

原料药 · 中药



PD750W-D单晶硅工业型差压变送器

DMP305X-DST Piezoresistive monocrystalline silicon industrial differential pressure transmitter



Measuring range: Differential pressure, 250Pa ~ 1MPa
量程范围: 差压, 250Pa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.075%F.S.
精度等级

Application: Petrochemical, Chemical, Power, Steel, Cement...
用途描述: 石化、化工、电力、钢铁、水泥...

PD750W-P单晶硅工业型压力变送器

DMP305X-TST Piezoresistive monocrystalline silicon industrial pressure transmitter



Measuring range: Gauge, 10kPa~40MPa
Absolute pressure, 10kPa ~ 40MPa
量程范围: 表压, 10kPa ~ 40MPa
绝压, 10kPa ~ 40MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.075%F.S.
精度等级

Application: Petrochemical, Chemical, Power, Steel, Cement...
用途描述: 石化、化工、电力、钢铁、水泥...

PD750W-T单晶硅工业型隔膜差压变送器

SMP858-DST Piezoresistive monocrystalline silicon industrial flush diaphragm differential pressure transmitter



Measuring range: Differential pressure, 10kPa ~ 1MPa
量程范围: 差压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: GB, European standard, American standard, Japanese standard
过程连接: 国标、欧标、美标、日标法兰

Application: Petrochemical, Chemical, Power, Steel, Cement...
用途描述: 石化、化工、电力、钢铁、水泥...

PD750W-HT单晶硅工业型隔膜差压变送器

SMP858-DST Piezoresistive monocrystalline silicon industrial flush diaphragm differential pressure transmitter



Measuring range: Differential pressure, 10kPa ~ 1MPa
量程范围: 差压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: GB, European standard, American standard, Japanese standard
过程连接: 国标、欧标、美标、日标法兰

Application: Petrochemical, Chemical, Power, Steel, Cement...
用途描述: 石化、化工、电力、钢铁、水泥...

PD750W-FD单晶硅工业型远传隔膜差压变送器

SMP858-DST Piezoresistive monocrystalline silicon industrial remote diaphragm differential pressure transmitter



Measuring range: Differential pressure, 10kPa ~ 1MPa
量程范围: 差压, 10kPa ~ 1MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: GB, European standard, American standard, Japanese standard
过程连接: 国标、欧标、美标、日标法兰

Application: Petrochemical, Chemical, Power, Steel, Cement...
用途描述: 石化、化工、电力、钢铁、水泥...

PD750W-F单晶硅工业型隔膜压力变送器

SMP858-TST Monocrystalline industrial diaphragm type pressure transmitter



Measuring range: Gauge, 10kPa ~ 4MPa
Absolute pressure, 10kPa ~ 4MPa
量程范围: 表压, 10kPa ~ 4MPa
绝压, 10kPa ~ 4MPa

Output signal: 4 ~ 20mA, 4 ~ 20mA+HART
输出信号

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Process connection: GB, European standard, American standard, Japanese standard
过程连接: 国标、欧标、美标、日标法兰

Application: Petrochemical, Chemical, Power, Steel, Cement...
用途描述: 石化、化工、电力、钢铁、水泥...

TA-300铂电阻标准型温度变送器

LG200-WRT Platinum resistance standard temperature transmitter



Measuring range: -200-600°C
量程范围: -200-600°C

Output signal: 4~20mA, 4~20mA+HART
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹



辅助工艺

Assistant Technology



PD210S扩散硅紧凑型压力变送器

SMP131-TLH Piezoresistive silicon compact pressure transmitter



Measuring range: Gauge, 10kPa~100MPa
Absolute pressure, 10kPa~100MPa
量程范围: 表压, 10kPa~100MPa
绝压, 10kPa~100MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line
用途描述: 气动液压自动化设备和生产线

PD210S扩散硅紧凑型压力变送器

SMP131-TLD Piezoresistive silicon compact pressure transmitter



Measuring range: Gauge, 10kPa~100MPa
Absolute pressure, 10kPa~100MPa
量程范围: 表压, 10kPa~100MPa
绝压, 10kPa~100MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line
用途描述: 气动液压自动化设备和生产线

PD210S扩散硅紧凑型压力变送器

SMP131-TLD Piezoresistive silicon compact pressure transmitter

PD210S-EX扩散硅紧凑型压力变送器

SMP131-TLN Piezoresistive silicon compact pressure transmitter



Measuring range: Gauge, 10kPa~7MPa
Absolute pressure, 10kPa~7MPa
量程范围: 表压, 10kPa~7MPa
绝压, 10kPa~7MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line
用途描述: 气动液压自动化设备和生产线

Measuring range: Gauge, 10kPa~100MPa
Absolute pressure, 10kPa~100MPa
量程范围: 表压, 10kPa~100MPa
绝压, 10kPa~100MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line
用途描述: 气动液压自动化设备和生产线

PD210S扩散硅隔膜型压力变送器

SMP858-TLD Piezoresistive silicon flush diaphragm pressure transmitter

PD210S扩散硅隔膜型压力变送器

SMP858-TLD Piezoresistive silicon flush diaphragm pressure transmitter



Measuring range: Gauge, 10kPa~40MPa
Absolute pressure, 10kPa~40MPa
量程范围: 表压, 10kPa~40MPa
绝压, 10kPa~40MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line
用途描述: 气动液压自动化设备和生产线

Measuring range: Gauge, 10kPa~40MPa
Absolute pressure, 10kPa~40MPa
量程范围: 表压, 10kPa~40MPa
绝压, 10kPa~40MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American standard thread
过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line
用途描述: 气动液压自动化设备和生产线

PD210S扩散硅紧凑型压力变送器

SMP131-TLD Piezoresistive silicon compact pressure transmitter



Measuring range: Gauge, 10kPa~100MPa
Absolute pressure, 10kPa~100MPa
量程范围: 表压, 10kPa~100MPa
绝压, 10kPa~100MPa

Output signal: 4~20mA
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.
精度等级

Process connection: GB, European standard, American
standard thread
过程连接: 国标, 欧标, 美标螺纹

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用途描述: 气动液压自动化设备和生产线

LCD11显示模块

LCD 11 Loop powered LCD display



Output signal: 4 ~ 20mA two wire
输入信号: 4 ~ 20mA 二线制

Power supply: 4 ~ 20mA two wire loop power, Maximum voltage drop: 8vdc
供电电源: 4 ~ 20mA 二线制回路供电工作, 压降最大8VDC

Site operation: 3 operational key, all parameters can be modified at site
现场操作: 三按键, 全部参数可现场修改

Site display: Double row 5 bit/8 bit, 8 section/16 section with backlight LCD display
现场显示: 双排5位/8位, 8段/16段带背光LCD显示

Display range: -19999 ~ 99999
显示范围

Accuracy: 0.1%F.S., ± 1 digit(位)
精度等级

Switch quantity: Max 2 way PNP for option
开关数量: 最多2路PNP可选



流量测量
压力测量
液位测量
温度检测
水质分析
环境检测
记录与控制



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