

Levigor 卫生型压力变送器
Levigor Hygienic pressure transmitter



食品制药业
Food and pharmaceutical industry

2017

www.leeg.cn

地址 / 上海市闵行区都会路100号 邮编 / 201109
电话 / 021-3126 1976 传真 / 021-3126 1975

A / No.100 Duhui Road,Minhang District,Shanghai China
T / 021-3126 1976 F / 021-3126 1975



Levigor 卫生型压力变送器

Levigor Hygienic pressure transmitter

卫生型压力变送器，是为了确保食品药品的卫生和安全，确保食品药品不会通过接触的压力变送器与有毒、有害、有污染的物质成分或不适合混淆的物质接触和相混，与食品药品直接接触的压力变送器的材料、结构、性能、加工（如焊接、抛光等）、洁净处理等方面都有着一系列的卫生要求，满足这些特殊要求就是卫生型压力变送器。

SMP858卫生型压力变送器满足以下一系列卫生要求：在材料无毒无害性要求方面，包括：根据不同条件要求选用不同等级不锈钢材料（304L、316L、410、409、329）；所选用的各类聚合材料、各类橡胶弹性体材料、粘合剂、润滑剂、测量传导液材料、热隔离材料、外镀材料等不得含有毒有害成分、不得有有毒有害成分渗出或渗入等；结构方面要求表面光洁、无死角，不易积垢残留、不易污染，容易冲洗（常采用快开卡箍接口）和容易灭菌消毒等；防染菌防污染方面要求有严格的密封隔离，防有毒、有害和污染物进入和泄出、耐高温消毒灭菌；加工方面要求有一定的光洁度和焊接性；维护方面要求有合适的清洁剂、内外表面容易清洁、便于在位清洁（CIP）和在位灭菌（SIP）等。

SMP858卫生型压力变送器用于食品药品生产设备中与食品药品原辅料、半成品成品直接接触实现压力或液位测量，其全部采用优质不锈钢材质和整体焊接结构，并满足严格的密封隔离性能和具有承受严格和充分高温灭菌消毒或化学灭菌消毒的性能和条件，安装和使用时不易产生灭菌消毒的死角等，真正满足无菌和避免染菌的要求从而确保食品药品生产安全的“无菌型压力变送器”。

Hygienic pressure transmitter, in order to ensure food and pharmacy healthy and safe, and guarantee they do not contact with toxic, hazardous and polluted substance, the pressure transmitter must meet a series of hygiene requirements with its material, structure, performance, processing and cleaning treatment.

SMP858 hygienic pressure transmitter with following special features: It adopts stainless steel in different class (304L, 316L, 410, 409, 329) according to different conditions. The polymeric material, rubber elastomer material, binder, lubricant, conductive liquids, thermal isolation material, plating material and so on do not contain poisonous and harmful substance. The surface need to be glabrous, no hygienic dead angle, non-residual, non-pollution and suitable for cleaning and sterilization. The transmitter is rigorously sealed to prevent polluted, toxic, harmful substance and also make it durable for high-temperature sterilization. It requires a certain degree of roughness and weldability. The stainless steel surface is suitable for CIP and SIP cleaning by appropriate cleanser.

SMP858 hygienic pressure transmitter is widely used in pressure and level measuring of food and medicines production equipment through direct contacting with food and medicines raw materials, semi-finished or finished products. It fully adopts superb stainless steel and complete welding structure. The characteristics of rigorous seal and isolation, high temperature CIP and SIP cleaning, no hygienic dead angle when mounting and working, can truly meet the requirements of sterility and non-contamination.

源于无菌制药，国内首家获得3A认证的卫生型压力变送器专业厂家
3-A approved hygienic pressure transmitter manufacturer



高性能 Levigor SMP858卫生型压力变送器

符合FDA、3-A国际标准的全不锈钢卫生型压力变送器，为最高要求无菌连续化药品食品生产设计制造，
高性能 Levigor SMP858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



High-performance Levigor SMP858 hygienic pressure transmitter

Whole stainless steel hygienic pressure transmitter in line with international FDA, 3-A standard, specially designed for aseptic food and pharmaceutical industry.

Strongest Levigor SMP858 hygienic pressure transmitter leads the trend of pressure measuring in hygienic occasion.

专利的高性能单晶硅压力传感器

专利技术封装单晶硅压力传感器，直装三膜片保护结构，从容应对现场高压过载考验，耐用持久可靠的高精度检测



Patented high-performance monosilicon pressure transmitter

High performance monosilicon pressure sensor with patented encapsulation technology. Vertical mounting three diaphragm protection structure can easily cope with high overload and high precision tests.

独特设计的参考端保护

针对食品药品生产工艺的特别设计，传感器末端外置参考端压力通过高分子透气膜，以及更高级别隔膜填充液封装的参考端，适合低温潮湿冷凝的现场工况



Unique designed reference pressure end protection

Unique designed for food and pharmaceutical industry. Gauge vent locates on the end of the sensor, more suitable for low temperature, humid and condensation working condition.

耐瞬变集成变送器模块技术

专用集成电路与表面封装技术的信号发送模块，按键参数操作功能友好，快速显示测量数据，高达160个压力标定点，确保测量的极高精度，集成耐瞬变模块，整体尺寸紧凑精巧而强大的电气保护功能



Specific ASIC and SMT signal transmitting module

Friendly button parameters operation function, display measured data quickly. 160 pressure calibration points to assure high measuring precision. Strong transient voltage resistance to protect terminal module.

不锈钢高强度电气保护壳

一体成型三平面支撑圆柱状不锈钢保护壳，不仅非常坚固并且圆润光滑易于清洁，精密螺纹连接壳本体与盖，轻松实现菜单功能操作，又确保IP69K的防护等级，可喷水清洗



Durable stainless steel housing

Durable integrated tri-plane supports cylindric stainless steel housing, tight and smooth, easy to clean. Precise thread connect housing with cap, realize menu function site operation. IP 69k approved stainless steel design housing is achievable to clean the instrument.

丰富齐全的过程连接

测量膜片采用全不锈钢焊接及电化学表面处理工艺，面粗糙度 $R_a \leq 0.4 \mu m$ ，符合无菌生产标准，不仅有Tri-Clamp、ISO2852、DIN32676等丰富齐全的全球标准或行业标准过程连接，更有更高标准的卫生连接提供



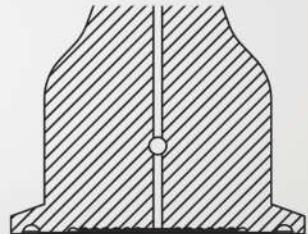
Rich and complete mechanical connections

The diaphragm adopts fully stainless steel welding and electrochemical treatment technology, roughness of surface $R_a \leq 0.4 \mu m$, in line with aseptic production standard.

Tri-Clamp, ISO2852, DIN32676 and other various international and industrial standard process connections as well as high-class hygienic standard process connections.

FDA认可的填充液和密封圈

密封件采用VITON®、FKM及PTFE材质，卫生填充液为Neobee® M-20，适用温度范围-20℃至200℃，材料及生产过程全部符合FDA的规范



FDA approved filling fluid and seal ring

VITON®, FKM and PTFE seal rings, Neobee® M-20 hygienic filling fluid, suitable for temperature range from -20°C to 200°C, the materials and production processes are in line with FDA standard.

焊接和安装配件的一站式服务

全部采用316L高性能不锈钢材质，严格按照国际标准尺寸，数控车床加工确保精度，一站式快捷方便采购高品质安装附件



One-stop service welding and mounting accessories

High-performance 316L stainless steel rigorously confirms to international standard, CNC lathe processing to assure high precision. Conveniently procure high-quality mounting accessories with one-stop service.

表压力测量 Gauge pressure

Levigor SMP858-TSF hygienic pressure transmitter
Levigor SMP858-TSF卫生型压力变送器



Measuring range: Gauge pressure, 10kPa ~ 3MPa
量程范围：表压力，10kPa ~ 3MPa

Power supply: 16.5~55vdc
电源

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

Accuracy: 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级：本安，Exia II CT4



绝对压力测量 Absolute pressure

Levigor SMP858-TSF hygienic pressure transmitter
Levigor SMP858-TSF卫生型压力变送器



Measuring range: Absolute pressure, 10kPa ~ 1MPa
量程范围：绝对压力，10kPa ~ 1MPa

Power supply: 16.5~55vdc
电源

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

Accuracy: 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级：本安，Exia II CT4



差压测量 Differential pressure

Levigor SMP858-NSF hygienic differential pressure transmitter
Levigor SMP858-NSF卫生型差压变送器

Measuring range: Differential pressure, 4kPa ~ 1MPa
量程范围: 差压, 4kPa ~ 1MPa

Power supply: 16.5~55vdc
电源

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

Accuracy: 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级: 本安, ExiallCT4



Measuring range: Gauge pressure, 10kPa~3MPa Absolute pressure, 10kPa~1MPa Differential pressure, 4kPa ~ 1MPa
量程范围: 表压力, 10kPa~3MPa 绝对压力, 10kPa~1MPa 差压, 4kPa ~ 1MPa

Power supply: 16.5~55vdc
电源

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

Accuracy: 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级: 本安, ExiallCT4



静压液位测量 Hydrostatic level measurement

Levigor SMP858-TSF hygienic pressure transmitter
Levigor SMP858-TSF卫生型压力变送器

Measuring range: Gauge pressure, 0.5~200mH2O
量程范围: 表压力, 0.5~200mH2O

Power supply: 16.5~55vdc
电源

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

Accuracy: 0.1%F.S., 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级: 本安, ExiaIICT4



差压液位测量 Level measurement

Levigor SMP858-NSF hygienic differential pressure transmitter
Levigor SMP858-NSF卫生型差压变送器

Measuring range: Differential pressure, 0.4 ~ 5mH2O
量程范围: 差压液位, 0.4 ~ 5mH2O

Power supply: 16.5~55vdc
电源

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

Accuracy: 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级: 本安, ExiallCT4



Measuring range: Gauge pressure, 10kPa~3MPa Absolute pressure, 10kPa~1MPa Differential pressure, 0.4 ~ 100mH2O
量程范围: 表压力, 10kPa~3MPa 绝对压力, 10kPa~1MPa 差压液位, 0.4 ~ 100mH2O

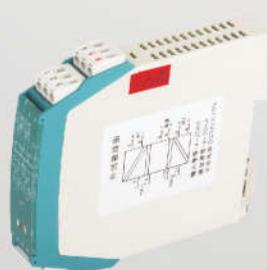
Power supply: 16.5~55vdc
电源

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

Accuracy: 0.2%F.S.
精度等级

Media temperature: -20 ~ 200°C
过程温度

Approvals: EX-proof
防爆等级: 本安, ExiallCT4



温度测量 Temperature transmitter

LG200-FRF hygienic temperature transmitter
LG200-FRF卫生型温度变送器

Measuring range: -50 ~ 400°C
量程范围

Power supply: 10~30vdc
电源

Output signal: 4 ~ 20mA
输出信号

Accuracy: 0.5%F.S.
精度等级



ISSUE DATE: August 23, 2016

CERTIFICATE AUTHORIZATION NUMBER: 3516



THIS IS TO CERTIFY THAT

Shanghai LEEG Instruments Co.,Ltd

No.100 Duhui Road, Minhang District Shanghai, China, Shanghai 201109 , China

is hereby authorized to continue to apply the
3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 74-06
74-06 (Sensors and Sensor Fittings and Connections)

set forth below

Both CIP and COP Model Number(s):Pressure Sensors:SMP858-TLD-xxxxxF-D1-x-xx-6xxFSK01, SMP858-TLD-xxxxxF-D1-x-xx-6xxFSK02, SMP858-TLD-xxxxxF-D1-x-xx-6xxFSK10, SMP858-TLD-xxxxxF-D1-x-xx-6xxFSK11, SMP858-TLD-xxxxxF-D1-x-xx-6xxFSK18, SMP858-TSD-xxxxxF-D1-x-xx-6xxFSK01, SMP858-TSD-xxxxxF-D1-x-xx-6xxFSK02, SMP858-TSD-xxxxxF-D1-x-xx-6xxFSK10, SMP858-TSD-xxxxxF-D1-x-xx-6xxFSK11, SMP858-TSD-xxxxxF-D1-x-xx-6xxFSK18SMP858-TST-xxxxxF-T1xx-xC-6xxFSK01, SMP858-TST-xxxxxF-T1xx-xC-6xxFSK02, SMP858-TLT-xxxxxF-T1xx-xC-6xxFSK01, SMP858-TLT-xxxxxF-T1xx-xC-6xxFSK02SMP858-TSF-xxxxxF-xx-HC-6xxFSK01, SMP858-TSF-xxxxxF-xx-HC-6xxFSK02, SMP858-TSF-xxxxxF-xx-HC-6xxFSK10, SMP858-TSF-xxxxxF-xx-HC-6xxFSK11, SMP858-TSF-xxxxxF-xx-HC-6xxFSK12, SMP858-TSF-xxxxxF-xx-HC-6xxFSK13, SMP858-TSF-xxxxxF-xx-HC-6xxFSK18, SMP858-TSF-xxxxxF-xx-HC-6xxFSK20, SMP858-TLF-xxxxxF-xx-HC-6xxFSK01, SMP858-TLF-xxxxxF-xx-HC-6xxFSK02, SMP858-TLF-xxxxxF-xx-HC-6xxFSK10, SMP858-TLF-xxxxxF-xx-HC-6xxFSK11, SMP858-TLF-xxxxxF-xx-HC-6xxFSK12, SMP858-TLF-xxxxxF-xx-HC-6xxFSK13, SMP858-TLF-xxxxxF-xx-HC-6xxFSK18, SMP858-TLF-xxxxxF-xx-HC-6xxFSK20SMP858-TSH-xxxxxF-xx-x-xx-6xxFSG12, SMP858-TSH-xxxxxF-xx-x-xx-6xxFSK01, SMP858-TSH-xxxxxF-xx-x-xx-6xxFSK02, SMP858-TLH-xxxxxF-xx-x-xx-6xxFSG12, SMP858-TLH-xxxxxF-xx-x-xx-6xxFSK01, SMP858-TLH-xxxxxF-xx-x-xx-6xxFSK02SMP858-NSF-xxxxxF-xxxx-HC-HLYM2F6SK01, SMP858-NSF-xxxxxF-xxxx-HC-HLYM2F6SK02, SMP858-NSF-xxxxxF-xxxx-HC-HLYM2F6SK18, SMP858-NST-xxxxxF-xxxx-HC-HLYM2F6SK01, SMP858-NST-xxxxxF-xxxx-HC-HLYM2F6SK02, SMP858-NST-xxxxxF-xxxx-HC-HLYM2F6SK18PS858-TSR-xxxxxF-H3-xxxxxxxxxxxx-6G12, PS858-TSR-xxxxxF-H3-xxxxxxxxxxxx-6K01, PS858-TSR-xxxxxF-H3-xxxxxxxxxxxx-6K02Temperature Sensors:LG200-DRH-R1-H1-F-53-xx-G6G12-xxLxxx, LG200-DRH-R1-H1-F-53-xx-G6K01-xxLxxx, LG200-DRH-R1-H1-F-53-xx-G6K02-xxLxxx, LG200-DRD-R1-D1-F-53-xx-G6G12-xxLxxx, LG200-DRD-R1-D1-F-53-xx-G6K01-xxLxxx, LG200-DRD-R1-D1-F-53-xx-G6K02-xxLxxxLG200-FRF-R1-xx-Fx-xx-G6G12-xxLxxx, LG200-FRF-R1-xx-Fx-xx-G6K01-xxLxxx, LG200-FRF-R1-xx-Fx-xx-G6K02-xxLxxxLG200-WRT-R1-T1xx-Fx-xx-G6G12-xxLxxx, LG200-WRT-R1-T1xx-Fx-xx-G6K01-xxLxxx, LG200-WRT-R1-T1xx-Fx-xx-G6K02-xxLxxx

VALID THROUGH: December 31, 2016

Timothy R. Rugh

Executive Director
3-A Sanitary Standards, Inc.

The issuance of this process certificate for the listed Accepted Practices is based upon the voluntary certification, by the applicant for it, that the equipment listed above conforms fully with the 3-A Accepted Practice(s) designated. Legal responsibility for conformance is solely that of the holder of this Process Certificate, and 3-A Sanitary Standards, Inc. does not warrant that the holder of a certificate at all times conforms with the provisions of the said 3-A Accepted Practice(s). This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance had been established.

NEXT TPV INSPECTION/REPORT DUE: August 2021



上海立格仪表有限公司

地址 / 上海市闵行区都会路100号 邮编: 201109

免费技术咨询 / 400-885-5117

电话 / 021-31261976

传真 / 021-31261975

邮箱 / sales@leeg.cn info@leeg.cn

网址 / <http://www.leeg.cn>

海外联系信息

德国

电话 / 49-17673073376

邮箱 / ger.sales@leegsensor.com

加拿大

电话 / 1-905-4699283

传真 / 1-905-4699159

邮箱 / can.sales@leegsensor.com

智利

电话 / 56-32-2815471

邮箱 / chl.sales@leegsensor.com

伊朗

电话 / 98-21-77685643

传真 / 98-21-77685628

邮箱 / irn.sales@leegsensor.com



扫一扫关注立格微信
scan & follow LEEG wechat



详情登录我们的网站
check website for more info