



CERGAS PROSES SDN BHD

FLOW

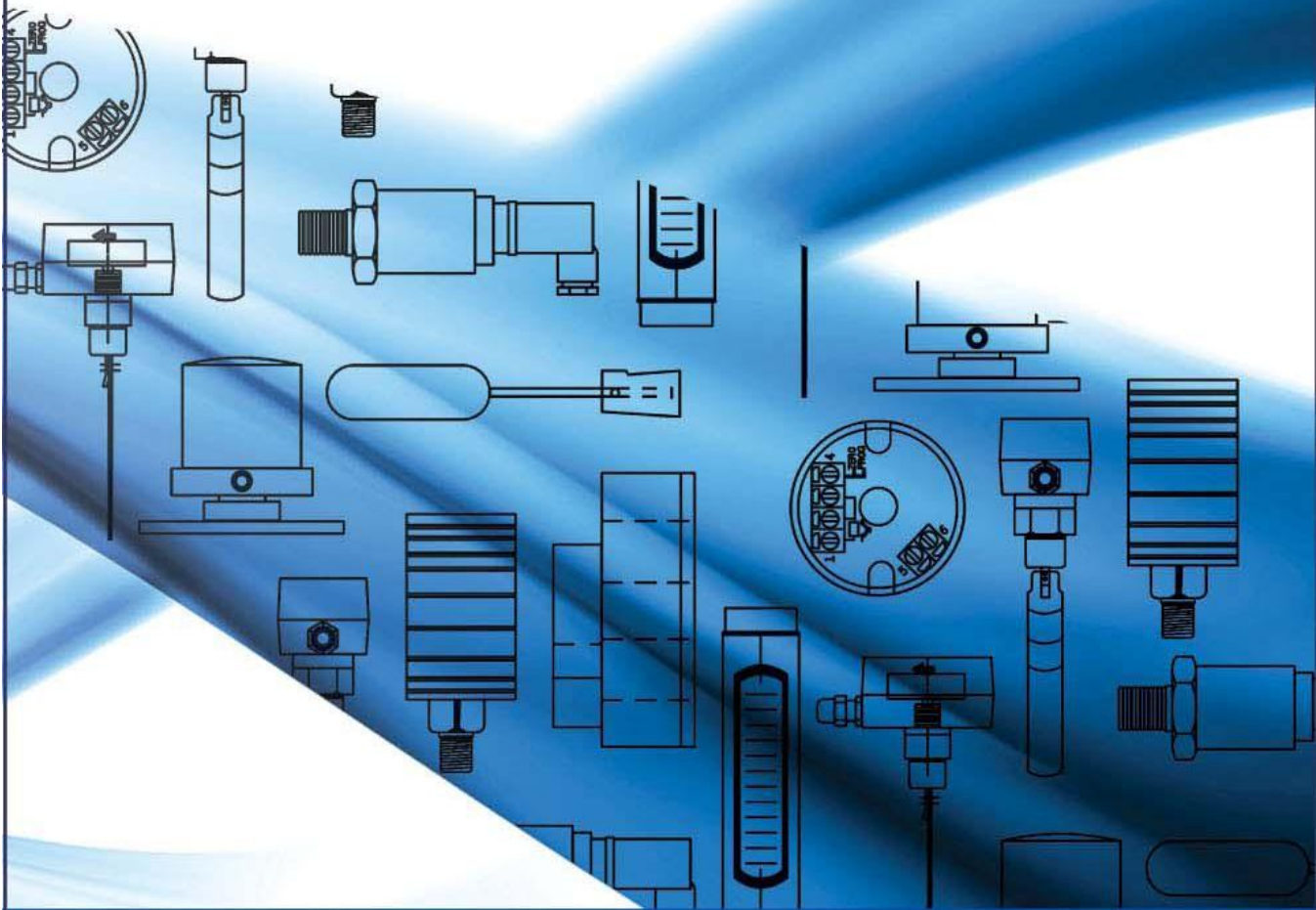
LEVEL

TEMPERATURE

PRESSURE

SYSTEM

VALVE



**Cergas Proses is the people at Cergas Proses.
Entrusted with responsibility, they make all the difference.**

We are soles distributor for :

 **M-SYSTEM**

 **GEMU®**

 **INOX-TEK IND. CO., LTD.**

 **InterApp**

 **macnaught**

 **Baumer**

 **HACH®**

 **SEOJIN**

 **ISOIL
INDUSTRIA**

 **GLI
International**
A Hach Company Brand

 **NOHKEN**

 **ELODRIVE**

 **tec sis**

 **V-TORK®**

 **NEW-FLOW**

 **NAF**

 **SHANGHAI KENT**

 **YSMETER**

Main Office

CERGAS PROSES SDN BHD (Co. No: 673150 - X)

No.9, Jalan Sena 11, Taman Rinting,
81750 Masai, Johor.

Tel : +607 295 1072 / 388 7631

Fax : +607 3878 226

Email : lieu@cergasgroup.com / sales@cergasgroup.com / cpsb@gmail.com

Valve Division

VALVEPRO SDN BHD (Co. No: 928542 - X)

No .9-01, Jalan Sena 11, Taman Rinting,
81750 Masai, Johor.

Tel : +607 295 1072 / 388 7631

Fax : +607 3878 226

Email : vpsb@gmail.com

www.cergasgroup.com



PRESSURE

PRESSURE GAUGES - HEAVY DUTY

Technical Data

Dial : 40mm, 50mm, 80mm, 100mm, 150mm
Connection : 1/8", 1/4", 1/2", 3/8", others on request
Measuring Range : 0 - 1 bar to 0 - 1000 bar

Typical Application :

- Foodstuff Industry
- High- Pressure Cleaners
- Underground Mining
- Wastewater Engineering
- Compressors
- Chemical Industry
- Shipbuilding

Features :

- Rugged stainless steel design
- Glycerine filling
- High dynamic loading capacity
- Accuracy class 1.6
- Universally applicable
- Low wearing



PRESSURE GAUGES - CHEMISTRY QUALITY

Technical Data

Measuring Range : 0 - 25 mbar to 0 - 1000 bar

Typical Application :

- Air locks
- Medical and laboratory engineering
- Exhaust gas measurements
- Gas generation
- Vessel content measurement
- Leak tests
- Liquid-stream cutting machines
- Maximum pressure test stands
- Burst pressure test stands

Features :

- Use in the millibar range
- Corrosion-resistant against aggressive media
- Damping possible by liquid filling
- Meets the highest safety standards up to S3 according to EN 837 - 3
- Connection at the bottom or rear side



PRECISION PRESSURE GAUGES

Technical Data

Measuring Range : 0 - 0.6 bar to 0 - 6000 bar

Typical Application :

- Precision monitoring in process technology
- Control and adjustment of test stands and testing equipment

Features :

- Mirror band scale
- Good clearness of display
- Overload protection up to 1.3 times of the nominal pressure
- Pointer with micro-adjustment
- Accuracy classes 0.25% / 0.6% / 0.1%
- Option : zero point adjustment



MODEL WITH DIAPHRAGM AND ALARM CONTACTS

Technical Data

Measuring Range : 0 - 25 mbar to 0 - 40 bar

Typical Application :

- Chemical and petrochemical industries
- Foodstuff and beverage industries
- Machine construction
- Plant and apparatus engineering

Features :

- Limit value signalling by magnetic snap-action or inductive contacts
- Suitable for SOS control units
- Up to 4 alarm contacts possible
- Vibration-resistant indication by liquid filling
- Overload protection up to 10 times of the nominal pressure
- Stainless steel measuring system
- Use in EX conditions if designed with inductive contacts
- Accuracy class 1.6 or 2.5 for liquid filling



MODEL WITH DIGITAL DISPLAY

Technical Data

Measuring Range :

Overpressure : 0~0.4 bar to 0~4000 bar
 Absolute pressure : 0~0.4 bar to 0~16 bar

Typical Application :

- Machine construction
- Plant and apparatus construction
- Hydraulic and pneumatic systems
- Measuring equipment monitoring
- Development and laboratory
- Process technology

Features :

- Illuminated LCD
- Fine step selection of nominal pressure ranges
- Bar graph display with a trailing pointer function
- Tare function
- Password protection
- Minimum/maximum value memory
- High overload protection



PRESSURE SWITCH NEMA 4,4X, IP65

Technical Data

Switch Data : one SPDT & two SPDT Microswitch,
 15amps 125/250V,

Gold Contact Microswitch 1A 125/250VAC

Housing : Die cast aluminium alloy with paint

Conduit Connection : 3/4" or 1/2" NPT female

Pressure Element : welded type diaphragm

Process Material : Wetted parts all in SS316

Process Connection : 1/2" or 1/4" NPT female

Model : recommended PS2000W





PRESSURE

PRESSURE SWITCH EXPLOSION PROOF TYPE

Technical Data

Switch Data: one SPDT & two SPDT Microswitch,
15amps 125/250V,

Gold Contact Microswitch 1A 125/250VAC

Housing: Die cast aluminium alloy with paint

Conduit Connection: 3/4" or 1/2" NPT female

Pressure Element: welded type diaphragm

Process Material: Wetted parts all in SS316

Process Connection: 1/2" or 1/4" NPT female

Model: Recommended PS2000X



PRESSURE GAUGE WITH MICRO SWITCH WEATHER PROOF TYPE

Technical Data

Material: Bourdon tube SS316, wetted parts SS316

Housing: SS304

Dial: Ø100mm

Protection Class: IP65

Lens: Safety Glass

Span Range & Zero Adjustable

Blow-Out: Back Ø25mm(1")

Accuracy: Gauge indication ±1.6% F.S

Pressure Limited: Over range protected 130% of full scale range

Process Connection: 1/2" NPT, option with adaptor available

Electronic Connection: DIN43650, universal plug connector, option with adaptor available

Switch Form: One setting point : SPDT x 1 or two setting point : SPDT x 2 available

Set Point: Full scale range available

Switch dead Band: ±2% of full scale

Model: Recommended PIS5000



PRESSURE GAUGE WITH MICRO SWITCH EXPLOSION PROOF TYPE

Technical Data

Material: Bourdon tube SS316, wetted parts SS316

Housing: Die cast aluminium alloy

Dial: Ø6"

Process Connection: 3/8", 1/2" NPT, option with adaptor available

Electronic Connection: 1/2" NPT, option with adaptor available

Accuracy: Gauge indication ±1.6% F.S

Pressure Limited: Over range protected 130% of full scale range

Switch Form: One setting point : SPDT x 1 or two setting point : SPDT x 2 available

Set Point: Full scale range available

Switch Dead Band: ±2% of full scale

Model: Recommended PIS5000X



DIFFERENTIAL PRESSURE SWITCH EXPLOSION PROOF TYPE

Technical Data

Accuracy: ±2% F.S (Ascending)

Housing: Die cast aluminium alloy

Pressure Element: wetted parts all in SS316

Process Connection: 1/4" NPT female, option with adaptor available

Conduit Connection: 1/2", 3/4" NPT female, option available

Working Pressure: 200 kg/cm²

Working Temperature: 80°C

Adjustable Micro Switch: One adjustable alarm contact

Load: 5A/250VAC/125VAC/30VDC

Temperature: -25°C~+100°C (AMB)

Hysteresis: ±10% of full scale

Model: Recommended DPS2000X



DIFFERENTIAL PRESSURE GAUGE

Technical Data

Dial Size: Ø4" and 6"

Accuracy: ±2% F.S. (Ascending)

Housing: 304 stainless steel

Pressure Element: Wetted parts all in SS316

Process Connection: 1/4" NPT (F); option with adaptor available

Working Pressure: 200 kg/cm²

Working Temperature: 80°C

Model: Recommended DPH Series



DIFFERENTIAL PRESSURE GAUGE

Technical Data

Dial Size: Ø4" and 6"

Accuracy: ±2% F.S (Ascending)

Switch Data: One SPDT micro switch, 3amps 125/250V,
and 4-20 mA output

Housing: Die cast aluminium alloy with paint

Electronic Connection: Standard 1/2" NPT female; 3/4" NPT female available

Pressure Element: Diaphragm-viton; others parts all in SS316

Process Connection: 1/4" NPT female; others with adaptor on request

Working Pressure: 200 kg/cm²

Working Temperature: 80°C

Model: Recommended DPG4000





PRESSURE

STANDARD MODELS

Technical Data

Measuring Range :

Negative : -1 ~ 0 bar to -0.025 ~ 0 bar
 Positive : 0 ~ 0.025 bar to 0 ~ 2500 bar
 Absolute pressure : 0 ~ 0.25 bar to 0 ~ 16 bar

Typical Application :

- Development and laboratory
- Plant and apparatus construction
- Delivery and lifting mechanisms
- Process technology
- Hydraulic and pneumatic systems
- General machine engineering

Features :

- output signal : 4 ~ 20 mA or 0 ~ 10 VDC (others on request)
- Suitable for dynamic and static measurements
- High shock and vibration resistances
- Good reproducibility
- Inside or flush diaphragm
- Integrated part cooling element for measuring medium temperatures of up to 150°C
- High load cycle stability
- High overload protection
- Ease of installation



ATEX-, FM-, CSA-, GL-MODELS

Technical Data

Measuring Range :

Negative : -1 ~ 0 bar to -0.1 ~ 0 bar
 Positive : 0 ~ 0.1 bar to 0 ~ 8000 bar
 Absolute pressure : 0 ~ 0.25 bar to 0 ~ 16 bar

Typical Application :

- Level measurement in EX environments in all fields
- Process technology
- Plant construction
- Testing and laboratory engineering

Features :

- output signal : 4 ~ 20 mA or 0 ~ 10 VDC (others on request)
- Suitable for dynamic and static measurements
- Intrinsically safe zone 1
- Option : zone 0
- Corrosion - resistant stainless steel design
- High long-term stability
- High accuracy
- Good reproducibility
- High overload protection
- Ease of installation



MODEL FOR LOW PRESSURE / DIFFERENTIAL PRESSURE

Technical Data

Measuring Range :

Overpressure : 0 ~ 0.5 mbar to 0 ~ 1000 mbar

Typical Application :

- Heating, air-conditioning, ventilating technologies
- Filter and dedusting systems
- Medical engineering

Features :

- output signal : 4 ~ 20 mA or 0 ~ 10 VDC (others on request)
- With and without LCD
- High reliability



DIFFERENTIAL PRESSURE TRANSMITTER

Technical Data

Power Supply : 10.5 ~ 45 VDC

Output Signal :

2-wire-system : 4 - 20 mA with superimposed signal for HART protocol/digital communication

Signal range-4 to 20 mA : 3.8mA - 22.8mA

Signal on alarm : 3.8mA/Option: 22.8mA/Others on request

Performance : Accuracy : 3S 0.1% accuracy for range turndown 5:1
 (0.1 + 0.01 X URL/Span) between 1/5 and 1/50 of measuring
 4S - 7S 0.075% accuracy for range turndown 10:1
 (0.075 + 0.0075 X URL/Span) between 1/10 and 1/100 of measuring
 8S 0.2% accuracy for range turndown 10:1
 (0.2 + 0.01 X URL/Span) between 1/10 and 1/100 of measuring

Static pressure effect : Zero error: 0.1%/7Mpa, Span error: 0.2%/7Mpa

Power supply effect : Negligible

Vibration effect : < 0.01% of URL /g when tested 200Hz in any axis relative

Installation position effect : Zero shift which can be calibrated out, no span effect

Thermal effect : 0.45%/55, Static pressure : 30bar - 130bar

Stability : 0.1% of URL/1 year, Switch on delay : 5s

Cycle time/Updater time : 0.25s, Damping : 0 to 100s, step: 0.1s

Response time : 200 ms (without consideration of electronic damping)

Self stability configuration : 0 to 2%, Filter configured : 0 to 160 uA

Model : Recommended STK336



SPECIAL APPLICATION

Technical Data

Typical Application :

- For highest pressures of up to 14000 bar
- Applications in food industry : special model with front flush diaphragm
- Submersible measurement
- Filter measurement
- "Precision" pressure gauges, particularly for test and calibration application
- With CANopen interface

Features :

- Thanks to most advanced engineering and stimulation technologies we are able to transfer complete innovative or retrofitted standard products to commercial viability.

The modular concept of the tectis sensor kit ensures extremely economic and reliable solutions based on well tried components and accessory parts



PRESSURE TRANSMITTER

Technical Data

Power Supply : 10.5 ~ 45 VDC

Output Signal :

2-wire-system : 4 - 20 mA with superimposed signal for HART protocol/digital communication

3-wire-system(optional) : 1 - 5V, Signal range-4 to 20 mA : 3.8mA...22.8mA

Signal on alarm : 3.8mA/ 22.8mA/Others on request

Performance : Accuracy : Nominal range 0.1%, 0.25% accuracy for range turndown 4:10.5%, accuracy for range turndown 10:1, Power supply effect :

Negligible Vibration effect : < 0.01% of URL /g when tested 200Hz in any axis relative Thermal Effect : 0.05%/10k,

Compensated temperature range of sensor : -20 ~ 80°C

Permissible load : < 50(V-12)Ω, Stability : 0.1% FSO/Year, Switch on delay : 5s

Damping : 0 to 100s, step: 0.1s

Response time : 200 ms (without consideration of electronic damping)

Self stability configuration : 0 to 2%, Filter configured : 0 to 160 uA

Adjustability : Three push buttons, Communication resistance : Typ. 250Ω

Application Conditions : Humidity : 5 - 98%

Ambient and operation : -40-85 (without display), -20-70 (with display)

Storage : -40-85, Ingress protection : IP 65

Electromagnetic compatibility(EMC) : Interference immunity and interference

emission according to GB/T17626.2-1998), compliance with IEC 61000-4-3:1995.

Model : Recommended STK 136





PRESSURE

FLANGE / THREADED TYPE DIAPHRAGM SEAL



Technical Data

Instrument Connection : Female thread 1/4" to 1/2" BSP or NPT
Membrane Size : Ø36, Ø45, Ø75 available
Process Connection : 1/2" to 3" flange, JIS, ANSI, DIN available
Temperature Limited : -40~+150°C cooling element or capillary line up to 350°C
Pressure Range Limited :
 Ø75 Membrane : -760 mmHg~0, Minimum process flange 2" x 150# RF
 Ø45 Membrane : Maximum up to 40 kg/cm²
 Minimum -1~5 kg/cm², 0~6 kg/cm²
 Minimum process flange 3/4" x 150# RF
 Ø36 membrane : Maximum up to 40 kg/cm²
 Minimum 0~10 kg/cm²
 Minimum process flange 1/2" x 150# RF
Material : Upper & Lower housig - SS316 (standard), others on request
 membrane : SS316L (standard); options - Hastelloy C276, tantalum, and others on request
Model : Recommended DT122

FLANGE TYPE DIAPHRAGM SEAL



Technical Data

Instrument Connection : Female thread 1/4" to 1/2" BSP or NPT
Process Connection : 2" to 4" flange, JIS, ANSI, DIN, available
Temperature Limited : -40~+350°C
Pressure Range Limited : (measurement type)
 Size : 2", 3", 4"
 Minimum Limited : -1~1.5;
 -760mmHg~0, -1~0.6, 0~2.5;
 0~0.6 bar
 Maximum Limited : 0~60; 0~40 bar, other on request
Material : body-SS316 (standard), others on request
Membrane : SS316L (standard)
 Option : Hastelloy C276, tantalum and others on request
Model : Recommended DT129

ACCESSORIES Damper / Snubber



Technical Data

Max. Temperature : 120°C
Max. Pressure : 400 bar @ 60°C
 D1 Connection Thread* : G1/2 (G1/2" Female x G1/2" Male)
 D2 Connection Thread* : 1/2" NPT (1/2" NPT Female x 1/2" NPT Male)
Parts Material :
 Body : SS316
 Screw Plug : SS316
 O-ring : Viton
 Adjusting Stem : SS316
Model : Recommended D1 & D2 Type - Guage Damper

OVER PRESSURE PROTECTOR



Technical Data

Range : 0.4~250 kg/cm²
Connection Size : 1/2" NPT female x 1/2" NPT male
Material : Body-SS316
 Spring-loaded piston-SS316
 Adjusting nut-SS316
 O-ring-Viton
Max. Working Temperature : 80°C
Model : Recommended OPT

ACCESSORIES Vent Valves / Manifold Valve



Technical Data

Drain/Vent Valves Material : SS316, and others on request
Max. Temperature : 250°C
Max. Pressure : 100 bar at 60°C
Model : Recommended VT Type - Drain/Vent Valves

SYPHON



Technical Data

Material : SS316, SS304 available
Pipe Rating : Sch40S, Sch80S available
Working Temperature : 0~150 bar
Working Pressure : 0~400°C
Connection : 1/4", 3/8", 1/2", other on request
Model : Recommended SY Series