

# PRODUCT OVERVIEW

PRESSURE SWITCHES & TRANSDUCERS



# Mechanical Pressure Switches

## Pressure Switches with Integrated Connectors

- NO / NC / Changeover
- «Plug & Play» connectors for high efficiency
- Various customization options (plug, housing material, thread, coding)
- Protection class up to IP6K9K
- Switching point adjustable on site



## Pressure Switches Hex 24

- NO / NC, max. 42 V
- Variable pressure ranges between 1.45 - 2,900 psi (0.1 - 200 bar)
- Overpressure safety up to 8,700 psi (600 bar)
- Cost-effective solution in many different variants
- Robust, compact design
- Set point adjustable on site



## Pressure Switches Hex 27

- Proven pressure switches with changeover contacts up to 250 V
- Variable pressure ranges between 4.35-5,800 psi (0.3 - 400 bar)
- Adjustable hysteresis at factory
- High overpressure safety
- Long service life even under harsh operating conditions
- Switching point adjustable on site



## Ready Wired Pressure Switches

Nearly all our hex 24 and hex 27 switches can be customized as ready wired switches to come with different cable lengths and connectors to suit your specific needs.

Protection class IP67 / IP6K9K



## 04XX Pressure Switches *PLUS* with Intelligent, Supplementary Functions

- Resistor circuit according to NAMUR (fail-safe) for short circuit and cable break detection
- Varistor circuit with overvoltage protection for prolonging the contact life and active reduction of EMV
- PTC thermistors with inrush current limitation when initial switching load is too high
- NTC Thermistors with temperature-controlled switching function, e.g. cold start or filter monitoring
- Protection class up to IP67 / IP6K9K



## Vacuum Switch, A/F 30

- High precision at pressure ranges from 1.45 psi to 1,450 - 5,800 psi (0.1 - 1 bar to 100 - 400 bar)
- Robust pressure switches with flange or thread connection
- Switching point adjustable on site by customer
- Easy-installation and maintenance-free



## ATEX Pressure Switches Hex 27, A/F 30

- Intrinsically safe pressure switches for applications in ATEX zones:
  - 1 (Gas- type 0165)
  - 22 (Dust- type 034X)
- Set point adjustable from 4.35 - 21.75 psi to 1,450 - 5,800 psi (0.3 - 1.5 bar to 100 - 400 bar) even whilst in operation
- Excellent price/performance ratio





# Mechanical Pressure Switches

## Vacuum Pressure Switches

- Easy to adjust vacuum switches with excellent overpressure safety
- NO, NC or changeover contacts
- Pressure ranges from 100 - 950 mbar (vacuum)
- Switching point adjustable on site by customer
- Very long service life



## Accessories

- Protective caps, sockets devices, thread / aluminium adapters and ready wired mating connectors
- Other options and customized versions available on request



# Pressure Transducers

## 0601 / 0602

### «Performance» Series, Hex 24

- Measuring ranges from 0-29 psi to 3,625 psi (0 - 2 bar to 0 - 250 bar)
- 2x overpressure protection
- Ceramic sensor in thick film technology
- Small, compact transmitters
- Stainless steel housing (1.4305)
- High level of adaptability to your requirements



## 0630 / 0631

### CAN BUS Transmitter, Hex 22

- Measuring ranges from 0 - 14 psi to 0 - 8,700 psi (0 - 1 bar to 0 - 600 bar)
- CANopen protocol acc. to CiA DS-301, Device profile acc. to CiA DS-404
- CAN J1939 protocol acc. to SAE J1939
- Completely welded measuring cell made of 1.4542 stainless steel



## 0645 / 0650 / 0660

### Transmitter Stainless Steel 303, Hex 22

- Measuring ranges from vacuum up to 1,450 psi (100 bar)
- Oil filled measuring cell with piezoresistive sensor
- Wetted parts in stainless steel 303 suitable for oxygen and hydrogen
- Ratiometric, current and voltage outputs



## 0675 / 0680 / 0690

### Transmitter Stainless Steel 316L, Hex 22

- Technical data as version 06XX in 303, but wetted parts and housing made of stainless steel 316L
- Especially for sea water, chemical and medical applications etc.
- Different sealing materials enable applications within a broad temperature range with diverse media



## 0705 / 0710 / 0720

### «High-Performance» Series, Hex 22

- Pressure ranges up to 8,700 psi (600 bar)
- Outstanding accuracy due to SoS sensor technology
- 4x overpressure safety
- Excellent temperature and long term stability
- Ratiometric, current and voltage outputs



## SUCO Transmitter Display (STD)

- Quick & easy plug-on display
- Pressure display in real time on site 4 - 20 mA current output, switching output option
- Loop powered - No additional voltage supply required
- Connection to DIN EN 175301-803-A (DIN 43650)



# Electronic Pressure Switches

## 050X / 051X

### Performance Series, Hex 24

- Small & compact electronic pressure switches for pressure ranges from 0 - 29 psi to 0 - 3,625 psi (0 - 2 bar to 0 - 250 bar) with 2x overpressure protection
- Ceramic sensor in thick film technology
- Housing made of 1.4305 stainless steel, others on request
- Switching point adjustable by customer or at factory
- Hysteresis adjustable between 2 % – 98 %, set at factory
- Types 050X programmable with PPD05
- Plasma cleaned "oil & grease free" and "PWIS-free" available on request



## 0520

### Pressure Switch Hex 27, 30 A/F

- Precise electronic pressure switch for pressure ranges up to 3,625 (250 bar)
- Ceramic measuring cell
- Hysteresis adjustable between 2 % – 95 % set at factory
- Adjustable by user without programming requirements
- Very high switching currents (up to 1.4 A)



## 0570

### Menu-Controlled Pressure Switch

- Electronic pressure switch with programming menu and display
- Ceramic measuring cell for pressure ranges up to 5,800 psi (400 bar)
- Two adjustable set points plus 4 – 20 mA analogue output
- Max pressure memory
- Code protected key pad lock etc.



## 053X High-Performance Series

- Pressure ranges up to 8,700 psi (600 bar) possible
- 4x overpressure safety
- Outstanding accuracy due to SoS technology
- One output, factory-set switching points
- Excellent temperature and long term stability



## 054X High-Performance Series, Hex 22

- Pressure ranges up to 8,700 psi (600 bar) possible
- 4x overpressure safety
- Outstanding accuracy due to SoS technology
- Two output, factory-set switching points
- Excellent temperature and long term stability



## SUCO Programming device PPD05

- «Plug & Play» via USB Suitable for SUCO
- Performance series 0500 and 0501
- Easy adjustment of switching point & switch delay time via software
- Enables hysteresis and window function



## Accessories

- Protective caps, socket devices and thread adapters
- Ready wired mating connectors
- Developed and aligned for your SUCO products
- Other options and customized versions available on request





# Pressure Transducers

## HI20XX

### High-Precision Pressure Transducer

- Accuracy  $\pm 0.1$  % of span BFSL
- Silicon-on-Sapphire Sensor Technology (SoS)
- Pressure ranges  
0-7.5 psi to 0-20,000 psi  
(0-500 mbar to 0-1,500 bar)
- Wetted parts made of titanium  
Zero-Off set and full scale (FS)  
adjustable by customer



## HP10XX / HP11XX

### High Pressure Transmitter

- Temperature range up to  $+257$  °F  
( $+125$  °C)
- Silicon-on-Sapphire Sensor Technology (SoS)
- Pressure ranges up to 72,500 psi  
(0 - 5,000 bar)
- Output signals: 10 mV/V, 0 - 5 V,  
0 - 10 V or 4 - 20 mA
- DNV-GL certification for marine  
applications



## LP10XX

### Low Pressure Transmitter

- For very low pressure ranges with  
highest accuracy
- Piezoresistive silicon sensor
- Pressure ranges from 0.75 - 7.25 psi  
(0 - 50 mbar to 0 - 500 mbar)
- Zero-Off set and full scale (FS)  
adjustable by customer



## PR320X

### Differential Pressure Transmitter

- PR3200 - Differential pressure  
from 7.25 - 3,000 psi  
(0 - 500 mbar to 0 - 200 bar)  
suitable for high line pressure
- Line pressure can be applied  
and measured from both sides
- PR3202 - Differential pressure  
from 0.07 - 14.5 psi  
(0 - 5 mbar to 0 - 1,000 mbar)



## HI22XX / PR3860

### High Temperature Pressure Transmitter

- Suitable for high temperature  
applications up to  $+482$  °F ( $+250$  °C)
- SoS Sensor Technology
- Pressure ranges from 0 - 21,750 psi  
(0 - 1,500 bar) possible
- Excellent long-term stability  
and accuracy  $\pm 0.1$  % of span BFSL



## PR3850 / PR3800

### Flush Diaphragm Pressure Transmitter

- Flush diaphragm available  
in stainless steel 316 or 316L
- Pressure ranges from 0-3 psi to  
5,800 psi (0 - 200 mbar to 0 - 400 bar)
- Easy clean flush membrane to  
prevent clogging
- Various connections available



## PR34XX

### Submersible Pressure Transmitter

- Pressure ranges from 0 - 1 mWS to 0 - 500 mWS
- Slim design for borehole applications
- Stainless steel housing 316L ensures  
excellent media compatibility
- High strength moulded
- Options include ATEX versions and
- DNV GL certification for marine applications



## Genspec© Dynamic GD4200-USB

### USB Powered Pressure Transducer

- Pressure ranges from vacuum up  
to 72,500 psi (5,000 bar)
- SoS Sensor Technology
- Sample rate up to 1,000 Hz
- Measurement and record of up to  
16 pressure inputs at once
- Accuracy (NLHR)  $\pm 0.15$  % of span BFSL



# Transmission Technology

## Centrifugal Brakes

SUCO centrifugal brakes automatically limit the maximum RPM of a shaft, so providing protection against over speed, without necessitating external controls.

SUCO can provide 'specials' based on their modular range of brakes. SUCO centrifugal brakes are very compact which facilitates inclusion in new transmission designs and, Retro fitting' (e.g. between motor and gearbox).

They are almost maintenance free and can be sized to work as an emergency brake or for continuous use. (e.g. personnel descent control).

Torque:  
0.5 – 2.000 Nm  
Operating speed:  
300 – 4.000 RPM



## Centrifugal Clutches

SUCO Centrifugal Clutches allow a soft load free start from rest, automatically engaging as the speed increases.

SUCO manufacture four basic designs comprising: 2 shoe with servo engagement, 2 shoe pin drive, 3 shoe pin drive and 3 shoe with servo engagement and integral shock absorbing rubber bushes.

All SUCO clutches are almost service free but easy to overhaul when required.

Torque  
0.5 – 2.000 Nm  
Operating speed:  
300 – 4.000 RPM



## Electromagnetic Clutches and Brakes

Our know how and experience of more than 75 years, combined with our modern machining facilities allow us to make individually designed electromagnetic clutches and brakes, even in small quantities.

When combined with our centrifugal clutches we can provide unique solutions for special applications.

Torque:  
1 – 280 Nm  
Operating speed:  
0 – 10.000 RPM  
Power Supply:  
6, 12, 24, 48, 190 VDC



## Security Brake for Small Wind Turbines

We have developed a security brake especially for small wind turbines up to 30 kW. In the event of the system rotating too quickly, the brake brings the turbine smoothly to a stand still and automatically restarts after a rest period.

The system works independently, without external energy or signals. We can customize our product to suit your application to arrive at a safe and service free installation.

Alternatively we also offer versions with manual reset. This patented SUCO ZERO system can be applied to other applications such as working platforms and lifts.

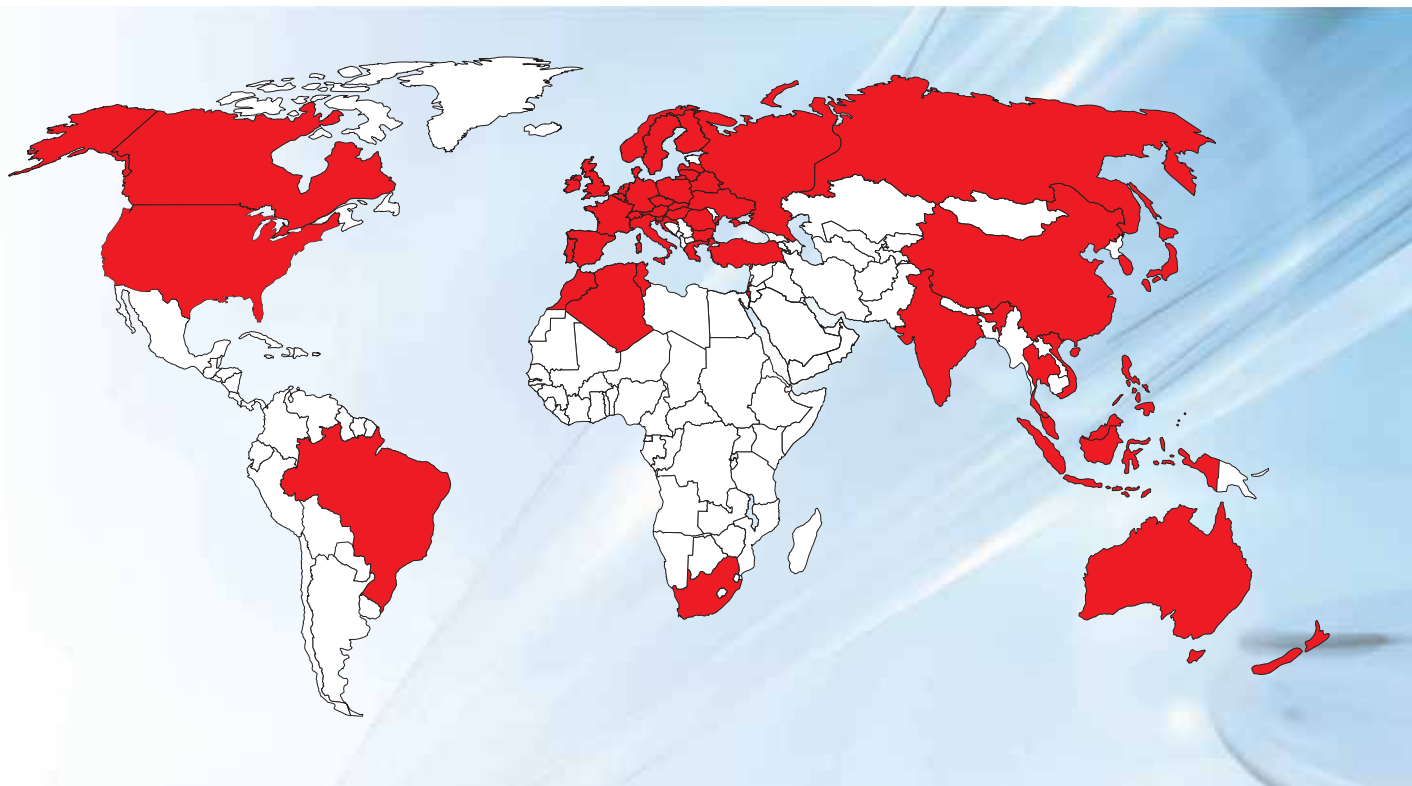


# Pressure Monitoring Systems and Transmission Technology



Our complete product range and sales network can be found online or in our catalogs.

Contact us or go online now.



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