

Over 120 years Condor

Enthusiasm and competence over four generations



The best of inspiration, innovation and craftsmanship

The company Condor was founded by August Frede in 1893, and first after its founding, it dealt with centrifuges, milking machines and also later pumps. With the issue of the world's first patent for a membrane pressure control for the automatic control of pumps in 1935, the era of Condor switching devices began.

Also the brand name MDR dates back to this time.

As the years continued, the product portfolio expanded constantly. Alongside motor protection relays and float switches, CPC offers through their own switch design and also customer-specified switching solutions of all types, for example pump and compressor controls, motor start-up controls or customer-specified special solutions.

As the "inventors of the pressure switch", all employees feel committed to the long and successful tradition of the company. Without a continuous, innovative and qualitative further development of our products, this persistently successful track record would not have been imaginable.

Condor itself was already certified according DIN ISO 9003 in 1993 and according to DIN ISO 9001 in 1995. This likewise has applied for CPC since its founding as an independent limited company. The basis for all of our handling and thoughts are these high demands for quality, which are to be optimized daily.

As customers of ours, you can consult our excellently qualified employees at any time. It does not matter whether your concerns are of a technical or commercial nature.

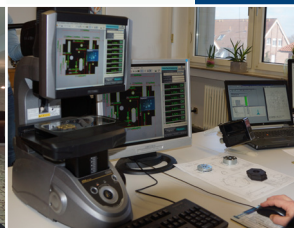
A symbol for quality since 1893.





Condor - our strengths

Competence · Efficiency · Reliability · Flexibility



Competent

Industrial pressure technology from 0.9 bar up to 250 bar

Condor has both in terms of price and technology the most suitable pressure switch:

- OEM or high-end product
- Standard product or customer-specified solution

Value for money

Pressure technology at its highest level

The concentration on pressure switches as components has led to an extraordinary efficiency and a perfect value-for-money ratio.

Reliability

Predictable delivery times and consistently meeting scheduling requirements

For short delivery times and binding delivery schedules, also for special designs, Condor is your predictable partner.

Condor reduces as a result your storage needs and increases your productivity.

Flexible

Solutions for your individual requirements

We solve your problems in industrial pressure technology quickly and cost-consciously, not only for mass-produced series, but also for small and mid-sized quantities.

Whether you need technical support, quick service help or rush orders, flexibility at Condor is an advantage for you.



Condor

Industries and applications



Your individual wishes

You will benefit from our long-standing experience in various industries, which is also reflected in our products. Therefore, we are the right partner for your individual wishes.

With our long-term know how of below-mentioned example fields of application, we will gladly find the optimal solution also for you and your special application area.



Compressors

- In the field of pressure controls and switches, Condor offers the complete assortment and has been number 1 in Germany as well as in Europe for a long time. The tried and tested MDR series as well as the electronic pressure controls represent reliability and competence.
- The high quality of pressure controls is continuously confirmed in extensive tests, for example lifetime and vibration tests.
- For use with direct, alternating and rotary current application up to 15 kW.
- For a coordinated cooperation between several compressors, Condor offers standardized compressor controls and as well as customer-specified special solutions.
- Continuous further development and even newer customer-specified solutions help you in the completion of new projects.
- Switches possess various approvals, for example VDE, VDS, ATEX, GL, KEMA, CSA or UL.



Condor products

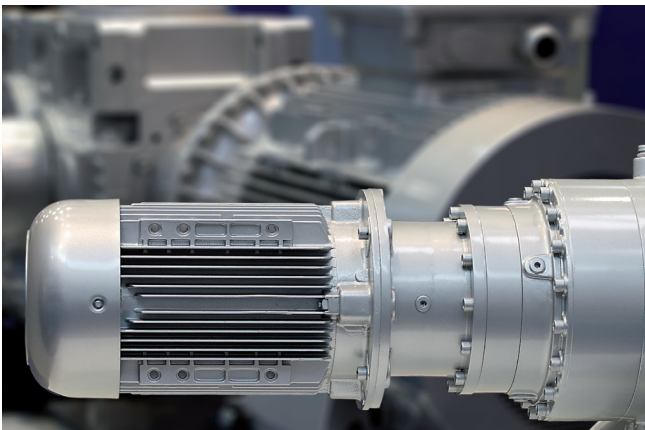
- individual and versatile

Industries



Water management / pumps level control

- For the field of water technology, Condor is the problem solver. We point out possible solutions and build customer-specified complete solutions for you and in line with your demands.
- Electronic level control as well as electronic pump controls (in connection with float switches for pumps) guarantee the highest possible degree of certainty in monitoring fill levels or in filling up and pumping dry.
- Along with electronic devices, we offer a wide range of electro-mechanical pressure switches with the most various choice of membranes, connector materials and higher IP protection types.
- With our pump controls, we can offer you standardized devices for the field of wastewater management, for example in wastewater pump systems, ducts and pumping stations.
- Controls possess various approvals, for example VDE, VDS, ATEX, GL, KEMA, CSA or UL



Motor technology

Our entire motor-protection switch programme for use in all industrial areas becomes a successful complete range through its versatile accessories.

Beyond that, we are able to offer customer-specified motor start-up controls by using our own internal control system design.



Fire protection extinguishing systems

- VdS pressure controls are designed primarily for use in stationary water-based extinguishing systems.
- The high quality of pressure switches is constantly proven through demanding tests, for example salt-spray corrosion tests or water hammer tests.
- Pressure switches have been approved by VdS Schadenverhütung GmbH under the approval numbers G4090032 and G4090008. Following pressure ranges can be used: 0.35-1 bar, 0.7-10 bar, 1 – 12.5 bar and 1.0 – 16 bar.
- As VdS recognized production sites, we are able to manufacture a variety of possible customer-specified variations, for example with a reset function, with plastic flanges or with Viton membranes.
- Upon request, customer-specific circuit boards with specified wiring and LED displays in an integrated design are available and realizable.



Condor

Industries and applications

Industries



Shipbuilding / offshore

- GL pressure controls, with a pressure range up to 250 bar, have been approved by Germanischer Lloyd, one of the largest classification societies, under the approval number 86884-10 HH.
- All GL pressure switches can be equipped with a reset function in order to ensure the realization of maintenance work.
- Monitoring pressure of fluids and gases in pipelines, boilers, pressure tanks and devices. In addition for automatic operation of compressor and pump motors, for example for water supply, with addition pumps, fireextinguishing systems and air pressure systems.
- The high quality of pressure switches is constantly proven through demanding tests, for example salt-spray corrosion tests or vibration tests.
- High long-term stability under extreme climates and temperature changes.
- For use with direct, alternating and rotary current application up to 15 kW.



Mining / chemistry

- As ATEX recognized production sites, we are able to manufacture a variety of possible customer-specified variations, for example with a reset function, with impact-resistant zinc or aluminium covers or with blue M20 cable glands.
- ATEX pressure controls, with a pressure range up to 250 bar, have been approved by TÜV Nord under the approval number TÜV 11 ATEX 079696. Control switches in the explosion protection type are used.



I M2 Ex ia I Mb Mining
(firedamp-susceptible mines)



II 2G Ex ia IIA, IIB, IIC T6 Gb Industry
(explosive gas atmospheres)



II 2D Ex ia IIC T85°C Db Industry
(explosive dust atmospheres, except mines)

- Monitoring pressure of fluids and gases in pipelines, boilers, pressure tanks and devices, as well as level control over fluids and gases explosive areas.
- The high quality of pressure switches is constantly proven through demanding tests.
- With our switches, reliable devices are also available for use in vacuum applications for explosive areas.
- With ceramic measuring cells, shielded cable and an especially developed stainless steel casings, Condor offers high-precision fill-level probes with ATEX approval for the most diverse applications, for example wastewater.



Railway technology / vehicles

- For applications in the field of railway technology, Condor offers special pressure switches in customer-specified variations.
- Monitoring pressure of fluids and gases in pipelines, boilers, pressure tanks and devices. In addition, in process controls, cooling and pressure technology as well as hydraulic applications.
- The high quality of pressure switches is constantly proven through demanding tests, for example salt-spray corrosion tests, vibration and shock or low temperature tests.
- High long-term stability under extreme climates and temperature changes.
- For use with direct, alternating and rotary current application up to 15 kW.
- The right choice of material for good fire protection.
- Connection available via electric, heavy-duty connector, for example via a rectangular industrial connector according to DIN EN 175301 (DIN 43650) or via a bayonet connector according to ISO 15170-1 (DIN 72585-1).



Condor Certificates and approvals

ZERTIFIKAT

Hiernit wird bescheinigt, dass

**Condor-Werke
Gebr. Frede GmbH**
Warendorfer Straße 47 - 51
55320 Eintrich

**Condor
Pressure Control GmbH**
Warendorfer Straße 47 - 51
55320 Eintrich

mit der nebenstehenden Unternehmens Einheit

ein **Qualitätsmanagementsystem** eingeführt hat und anwendet.

Geltungsbereich:
Entwicklung, Produktion und Vertrieb von elektromechanischen Schaltgeräten sowie Steuerungen und Steuerungslösungen für die Pumpen- und Kompressordindustrie

Durch ein Audit, dokumentiert in einem Bericht, wurde der Nachweis erbracht, dass das Managementsystem die Forderungen des folgenden Regelwerks erfüllt:

ISO 9001 : 2008

Zertifikat-Registrier-Nr.: 001856 QM08
Zertifizierungsdatum: 2012-07-10
Gültig bis: 2015-07-09

DQS GmbH
Michael Drechsel
Geschäftsführer

Akkreditierte Stelle: DQS GmbH, August-Schanz-Strasse 21, 60433 Frankfurt am Main

Type Approval Certificate

This is to certify that the undermentioned product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.: **DE 884 - 10 104**

Company: **Condor Werke
Güterfelder Straße 47 & Co KG
Warendorfer Straße 47 - 51
55320 Eintrich, GERMANY**

Product Description: **PRESSURE SWITCH**

Type: **MDR-F-2, 4, 8, 15, 12,5, 16, 32, 66, 126, 250, GL**

Environmental Category: **None**

Technical Data /
Range of Application:
Rated operating current I_n: 0-240V 0-10A
Rated operating current I_n: 0-240V 0-10A
Output contacts:
Wiring: 1x SPDT (Single Pole Double Throw)
Temperature range:
Metal Flange: -20 °C ... +70 °C
Plastic Flange: -20 °C ... +50 °C
Degree of Protection: IP65
Material Flange:
High pressure flange, CuZn39Pb3 / X110NiS18
Metal Flange, S-AISI 316
Plastic Flange, PA 6.6 GF 30%
Pressure range:
High pressure flange up to 250 (bar)
Metal flange up to 12,8 (bar)
Plastic flange up to 12,8 (bar)

Test Standard: **Guidelines for the Performance of Type Approvals, Part 7 - Guidelines for the Performance of Type Approvals, Chapter 2 - Edition 2003**

Documentation:
- Test report no.: 86-0963, laboratory document, dated: 2015-04-09
- Test report no.: WAL_09037, issued: 2008-03-30
- Test report no.: WAL_09016, issued: 2008-03-30

Remarks: **The selection of the Pressure Switch for the corresponding application and the right installation are to be in accordance with the instructions of the manufacturer.**

Valid until: **2019-02-10**

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File No.: **LD.01**

Hamburg, 2016-02-15

Germanischer Lloyd



Certified according to ISO 9001 : 2008

Condor is certified in ISO 9001 : 2008 and works together with various accredited laboratories.

As of August 5, 2014 Condor Pressure Control has reached the status of an AEO-C (Authorized Economic Operator) with the certificate no. DE AEOC 119710 for simplified customs processes.

You will find the certificate itself as a PDF-file in our Download Center - www.condor-cpc.com.

