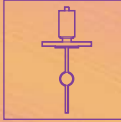
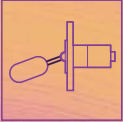


Short Form Catalogue

Level Measurement





www.phoenix-mt.com
PHÖNIX Messtechnik GmbH

PHÖNiX



Float switches Type 719

Application range:
Up to PN 250/ANSI 2500
-200 to +400 °C

Materials DIN and ANSI:

Stainless steel,
Monel, Hastelloy ...
Float:
Stainless steel or Titanium

For applications in:

Chemical industry, Petrochemical industry,
Refineries, Power plants, Boilers, Heat transfer
systems, Refrigerating plants

Versions for:

Top mounting
up to 5800 mm sensor length,
Lateral mounting
For studs from 47 mm inner diameter on
Liquid level or Interface

Switch types:

Top mounting
Reed switches monostable or bistable
N.C., N.O. or SPDT
Lateral mounting
Switch modules optionally with Reedswitch,
magnetic coupled SPDT, Proximity switch acc. to
DIN 50227 (Namur), also in fail safe design,
with ATEX-certificate, Ex i and Ex m

Materials DIN and ANSI:

Stainless steel,
Monel, Hastelloy ...

Material float:

Stainless steel, Titanium, special alloys...
glass

Sensor types:

Magnetostrictive Sensor:
With high resolution <0,1 mm,
4...20 mA current loop, 2-wire,
Sensor length up to 5800 mm
Liquid level or interface

Reed chain:

Resolution 10 or 15 mm,
Sensor length up to 5800 mm
As passive resistor sensor or equipped with
R/I-converter
4...20 mA current loop, 2-wire, HART-Protocol,
Profibus, Fieldbus

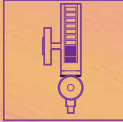
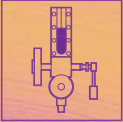
Certificates:

Magnetostrictive Sensor: ATEX Zone 0
Reed chain: R/I-converter in Zone 1



Float level gauge Type 746

Application range:
Up to PN 64
-40 to +125 °C / -60 to +180 °C
density > 0,5 g/cm³



Sight glass level gauge Type 700, 703

Application range:
Up to PN 250/ANSI 2500
-200 to +400 °C

Materials DIN and ANSI:

Forged steel, high temperature steel, Stainless steel, Monel, Hastelloy ...Coating rubber, Halar... glasses acc. to DIN 7081
corrosion protection mica, FEP (KEL-F), frost protection

For applications in:

Chemical industry, Petrochemical industry, Refineries, Power plants, Boilers, Heat transfer systems, Refrigerating plants, low temperature systems, Offshore

Instrument line:

Weld-pad type,
tubular level gauge,
Reflex- and Transparent level gauge
Refraction type (black-white) suitable for TV

Equipment:

Single or double closing gauge valves, integrated safety ball check, Flanged, screwed or welded connections, pivoted, offset
Illumination Halogen, fluorescent lamp also with ATEX, UL, FM, IP 66
Heat tracing, graduated scale, UV-filter

Materials DIN and ANSI:

Gauge vessel in SS, Hastelloy, Titan, Monel, Inconel..., synthetic materials..., lining PTFE coating E-CTFE, Halar, rubber ... and flanges also in CS

Material float:

Stainless steel, Titanium, special alloys, synthetic materials, PTFE, Glass, coating E-CTFE, Halar,...

Advantages:

All floats are of closed design, up to 400 bar
Liquid level or interface, Special floats designed for density precision $\pm 0,01 \text{ g/cm}^3$
Indicating elements permanent magnetic, with stopper and float defect control

Equipment:

Indicators for low and high temperatures, corrosive environment, electrical limit switches, remote control with external sensors (also Ex), steam tracing, electrical heat tracing, anti frost protection and preparation for insulation, graduated scales

Certificates:

ATEX Zone 0, incl. Titanium float
GL, sour gas,...



Magnetic level gauge Type 710

Application range:
Up to PN 400/ANSI 2500
-200 to +450 °C
Densities from $0,29 \text{ g/cm}^3$



**Optoelectronic level switch
Type 720**

Application range:
Up to PN 500
-269 to +600 °C

Materials DIN and ANSI:

Stainless steel, Monel, Hastelloy, Titan...,
Quartz, cladde-core glass, Graphite, PTFE

For applications in:

Chemical industry, Petrochemical industry,
Refineries, Power plants, keineBoilers, Heat
transfer systems, Refrigerating plants, low
temperature systems incl. Hydrogen, pumps
(running dry protection), vacuum pumps,
compressors, food and beverage industry,
pharmaceutical industry

Advantages:

Practically independent from:
Density, dielectric constant, colour, conductivity,
refractive index, foam

Measurement in very small volumes, allows gas
bubbling (optional with protection sieve) and some
dirt

Certificates:

ATEX Zone 0, also for CS₂ (carbon bisulphide)
Overfill prevention device (German WHG §19)

Materials:

housing stainless steel, coupling surface Epoxy
resin

Principle:

Measuring through the wall

Advantages:

Not in contact with media,
no opening of vessel,
System independent from pressure,
ideal for toxic, pure or corrosive liquids,
can be used in vacuum, because measurement
is done through the liquid

Instrument line:

Ultrasonic liquid level switch:
Using damping mode, wall thickness 3...15 mm,
diameter of vessel >25 mm, reproducibility 1 mm
24 VDC, output NPN O.C.

Using echo, measures time of flight through the
liquid, wall thickness
1...30 mm, measuring range 50...10 000 mm,
resolution 0,5 mm,
sensor perpendicular to liquid surface ortogonal
24 VDC, output 4...20 mA, 4-wire



**Ultrasonic Sensors
Type 78X**

Application range
-10 to +85 °C



Company profile Quality Management System

Company profile

PHÖNIX Messtechnik GmbH

After 90 years of experience in design and application of sight glass level gauges and boiler level gauges we invented nearly 50 years ago the first magnetic level gauge. After being successful with this we also have 25 years experience with modern optical sensor technology. Following this additional we expanded our product range with the development of our magnetostrictive sensors and the new ultrasonic sensors, accompanied by some patents and unique technological solutions.

We are engaged in some national and international standardisation organisations like DIN, VDI/VDE/NAMUR and CEN and so take part in the actual technical development.

As one of the first level companies worldwide we had been represented in INTERNET since 1996 with our Homepage.

Phönix products are of excellent quality and are in use worldwide. We are engaged with JVCs in Hungary, Czech Republic and China.

QM-System

In accordance with DIN EN ISO 9001 :2000

Certified by TÜV CERT Hessen

Product-related performance

All products are marked with serial no. and/or commission/Tag-no

Traceable raw materials

Regularly documented check of measurement an test tools
Intermediate and final test in accordance with standard and special test plans

Manufacturing in accordance with standard process planning

Test status and test result of products identifiable during production and dispatch

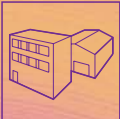
Incoming and outgoing inspection with planned processes
Assessment of suppliers quality level with questionnaire or audits

Supply of works- and test certificates 2.1, 2.2, 3.1 (A/B/C), 3.2 acc. to EN 10204,

Sour gas specifications (NACE, BEB, MOAG,...),

Acceptance tests acc. To customers specification

Extensive documentations in paper and electronic form



JVC's



PHÖNIX BRV kft, Hungary

Sales of PHÖNIX products
in Hungary and production
Ózd, Hungary



Wenzhou PHÖNIX
Measurement & Equipment
Co Ltd, P. R. of China

Sales and production of
PHÖNIX products in China
Wenzhou, P. R. of China

NEW!



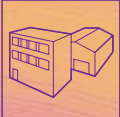
Connection type
Varivent laser welded
 r_a 0,8 μ m

Optoelectronic liquid level switch
for sterile applications in food and
beverage and pharmaceutical industry

With pulsed light and integrated switch
electronic circuit. The switch direction
can be set for any application.
Output O.C. PNP.

Connection type tri-clamp
Laser welded
 r_a 0,8 μ m





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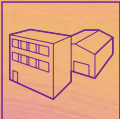
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