

MAGNETIC LEVEL GAUGE KM20

Section 1: general information

1. General Description

1-1 Features:

Rugged construction.

Safe for flammable, corrosive and toxic liquids.

Suitable for maximum specified pressure 150 bar.

Special types for high and low temperature operation (-10 ~220°C),

Special (-45 ~400°C)

Available with integral limit switches & transmitters.

Installed for out of ground or under ground vessel.

Ability to install from side-side and top of the vessel. Fig A,B,C

Low cost.

Usable for interface process (double liquid).



The S-ch KM-20 liquid level indicating system is designed for use in applications where a simple gauge glass cannot be used. Due to its design the KM-20 can safely be used with flammable, corrosive or toxic liquids or where operating conditions exceed safety limits of glass. The rugged construction of the KM-20 makes them ideally suited for use in operating environments where extreme temperature and/or pressure may be encountered. The basic KM-20 systems consist of a float, float chamber, indicator assembly and connection flanges or nipple. The float chamber is connected directly to the process vessel. The float contains a magnet assembly and is designed and weighed to float in the process liquid. A graduated scale corresponding to the desired operating range. The indicator assembly is mounted in close proximity to the float chamber. Magnetic coupling exists

between the float and the indicator. As the float following changing liquid level. The indicator changes position to reflect that level due to the coupling action.

Industries served

- Petrochemical refineries
- Pulp and paper processing
- Power plants
- Pharmaceutical processing
- Food processing

Common application

- Fuels and Solvents
- Oil production
- Lubrication oils
- Detergents and soaps
- Boiler feedwater tanks
- Ammonia tanks
- Storage tanks
- Acid tanks

1-2 specification

Technical data:

Level range	min 0.3 m – max 12 m
Accuracy	1 cm
Scale	standard in cm .
Working pressure	Max 150 bar
Working temperature	-10~220°C , special (-45~400°C)

Material and dimension:

A. Float chamber material

Standard SS304, SS304L, SS316, SS316L, PP, PE

Dimensions

Standard: ASME, B36.10 M 2" – Sch 10~80

Special other non-magnetic materials available.

B. Float

Standard: SS304, SS316, Titanium, PP, PE

Special: other non-magnetic materials available.

C. Dimension

Units are custom built to each customer's specification.

D. Connection

Standard

Flange: ANSI 3/4" ... 2", 150 ... 600Lb-DN 20 ... 50, PN 16/40

Nipple: threaded 3/4" ... 1" Sch 10 ... 40-NPTF, NPTM, NPS

Special: According to customer order.

Material:

Standard SS304, SS304L, SS316L, PP, PE

F. Protection (indicator) IP67

To En60529/IEC529

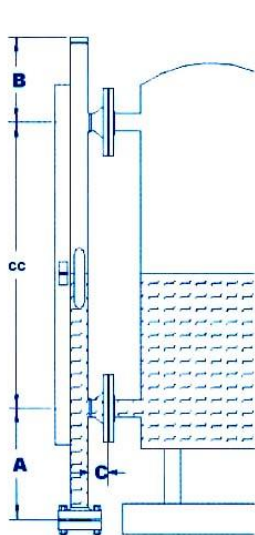


Fig B

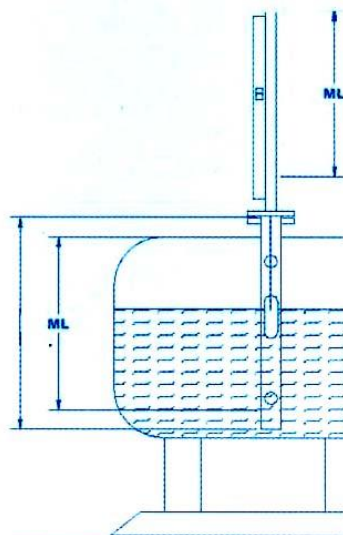


Fig C

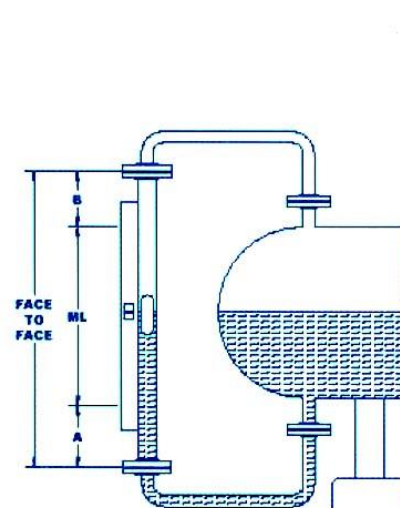


Fig A

Switches

Type k11

Contact read contact

Voltage 12~220 V AC/DC

Max Amper 0.3A

Housing protection IP67

Cable 3 meter



DATA FOR ORDE

Mounting: Side-Side Top-Bottom Top-Side Bottom-Side

Connection: Flanges Size..... Thread NPT M
Size.....

Center to center of connections(CC):mm

Body material

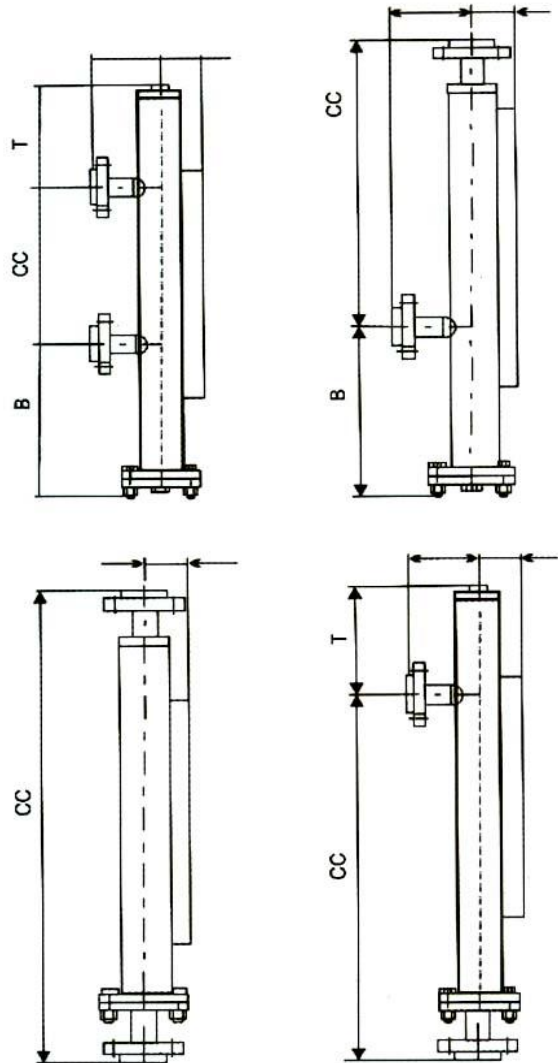
Standard: SS 304

Option PE PP UPVC SS 316

Density: gr/cm³

Working Pressure:bar

Working temperature:°C



HASSAS CONTROL INDUSTRY

Phone: +98(0) 21- 55277718/55277719

Fax: +98(0) 21-55274033

Website: www.sch-co.com

Email: info@sch-co.com