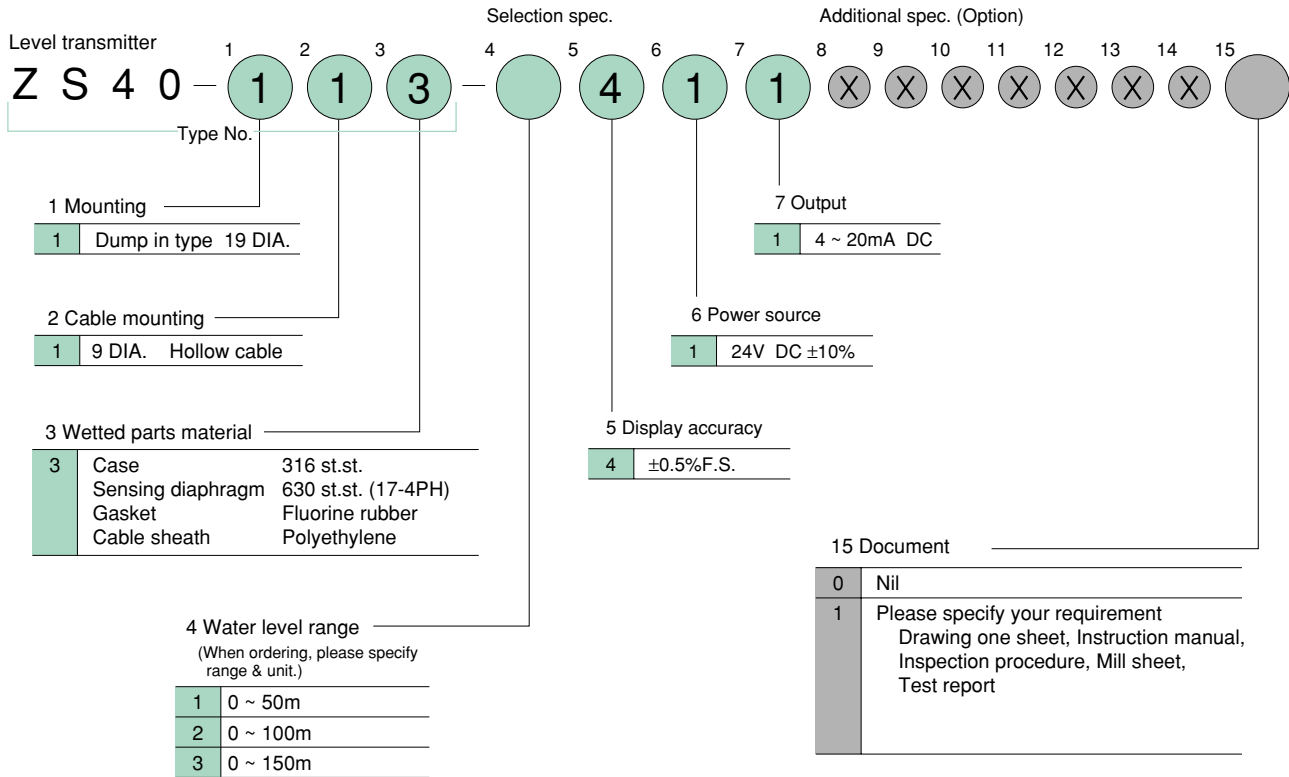


Type No. constitution

Please specify Type No., each specification and range when ordering.

Note: For this Model, there is no applicable item for the figures X, but please specify X when ordering.



GC94 Digital indicator <Power source built-in type for water level sensor>



SPECIFICATION

Display: 3 1/2 digit LED display

Power source: 100V AC, 110V AC, 200V AC, 220V AC, 24V DC (Appoint it)

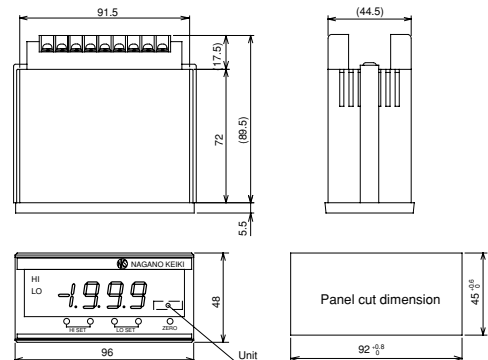
Water level sensor power source: 24V DC built-in

Sensor input signal: 4 ~ 20mA DC

Output: Relay contact 2 output (250V DC 0.2A)

Analog output 4 ~ 20mA DC, 0 ~ 5V DC, 1 ~ 5V DC (By request)

DIMENSIONS



• Details of GC94, please refer to our catalogue No. B10-01

The contents in the catalogue are subject to change without notice.

NAGANO KEIKI CO., LTD.



UEDA FACTORY (JQA-0794)
MARUKO FACTORY (JQA-0789)

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OVERSEAS SALES NETWORK: AUSTRALIA, HONG KONG, INDONESIA, KOREA, MALAYSIA, PHILIPPINES, SINGAPORE, TAIWAN, THAILAND, U.S.A.



ZS40 Level Transmitter

OUTLINE

This water level sensor has built-in the semi-conductor pressure sensor, and the output is 4 ~ 20 mA with exclusive amplifier.

You can grasp conditions of the source of ground water exactly with it, and the stable measurement is possible.

FEATURES

- Pressure sensing parts is superior in durability and stability. Because the pressure receiver is the semi-conductor pressure sensor which adopting stainless steel diaphragm of liquid seal uselessness.
- Sensor is a diameter of 19 mm, and it is simple and superior protective construction with no moving parts
- It is complying with protective properties against surging and electrical noise and induction thunder from the exterior. It realized low price status.

SPECIFICATION

Fluid:

Non-corrosive liquid

Operating condition:

Under the normal condition, where there is no inflammable gas or liquid which cause the ignition or explosion.

Cable type:

9 DIA. Hollow cable

Wetted parts material:

Case	316 st.st.
Sensing diaphragm	630 st.st. (17-4PH)
Gasket	Fluorine rubber
Cable sheath	Polyethylene

Water level range:

0 ~ 50 → 0 ~ 150m

Allowable over load:

200% of water level range

Operating temperature:

-5 ~ 50°C (But should not be frozen)

Power source:

24V DC ±10%

Output:

4 ~ 20mA DC (2wire system)

Load resistance:

500Ω or less

Transmission:

2wire system

Accuracy:

±0.5%F.S.

Temperature coefficient:

±0.05%F.S./°C (Zero • Span)

Thunder & lightning resistance:

1kV (8/20μ sec)

Weight:

Body Approx. 200g (Cable Approx. 100g/m)

Water level range, Accuracy, Cable length:

Water level range	Accuracy (±0.5%F.S.)	Standard cable length
0 ~ 50m	±0.25m	55m
0 ~ 100m	±0.50m	105m
0 ~ 150m	±0.75m	155m

* Please contact us when the cable length is except standard length or necessary the compensation of SP • GR.

PRINCIPLE AND CONSTRUCTION

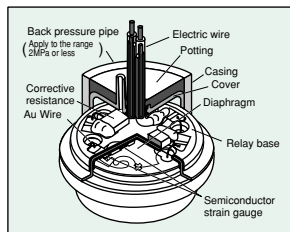
Circuit protection safeguard

Varistor is built in to protect a circuit from electricity noise of exterior or induction thunder.

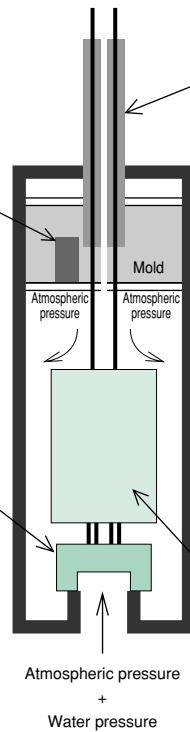
Sensing part

The semi-conductor pressure Sensor which using stainless steel diaphragm is built in this water level Sensor. It detects water pressure direct.

Semiconductor strain gauge sensor



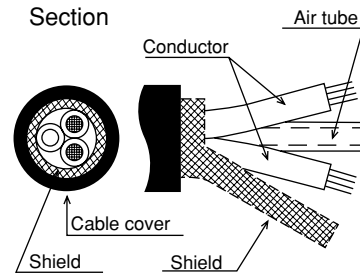
A semiconductor strain gauge, the distortion generating portion and the pressure connecting portion are in an incorporated construction, without utilizing corrosive materials nor the connecting portion. So, excellent durability and stability are demonstrated.



Hollow cable

Converted current signal is transmitted by hollow cable. Hollow cable is the construction which doesn't receive affect of atmospheric-pressure drift with air tube for the atmosphere introduction.

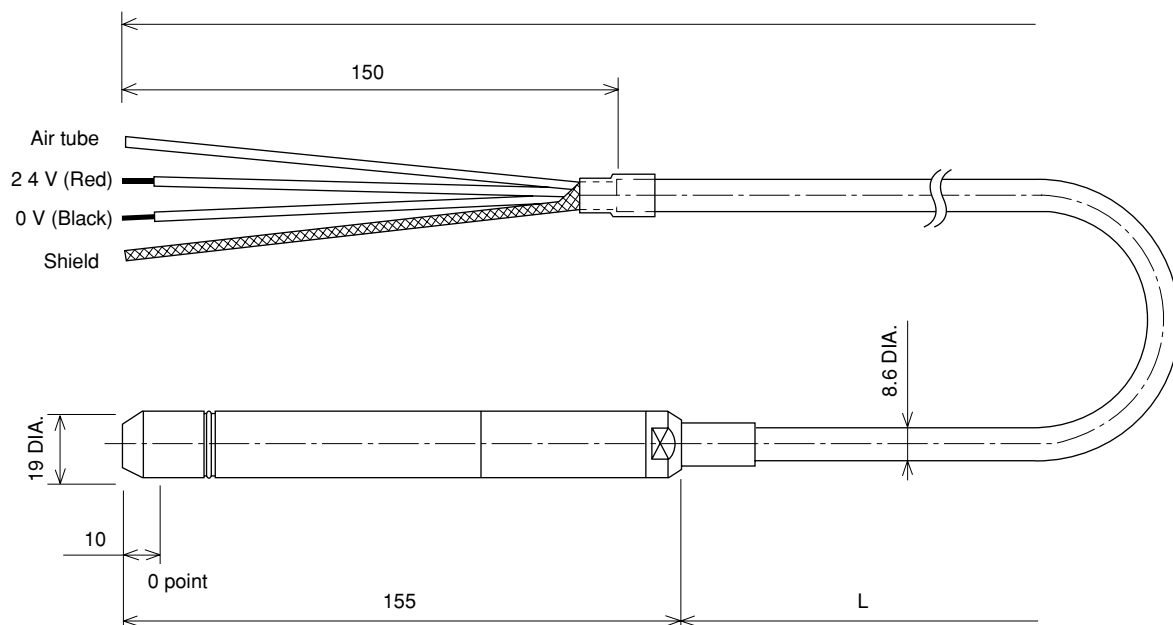
Section



Electronic circuit

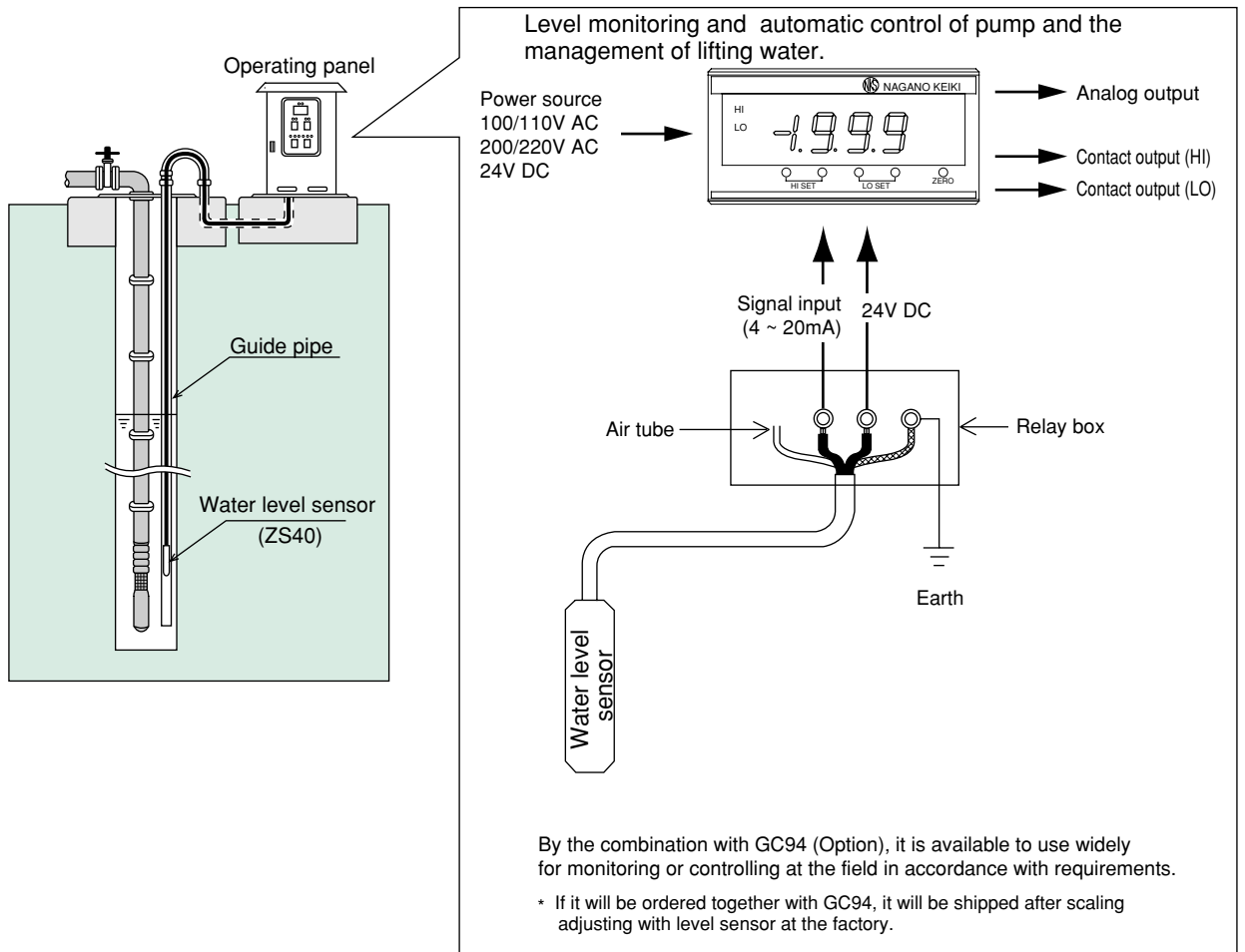
It converts detecting signal of pressure sensor into current signal of 4 ~ 20 mA DC by built-in amplifier.

DIMENSIONS



USE EXAMPLE WITH DEEP WELL

Example of combination with digital indicator (Model GC94)



This water level sensor is complying with protective properties against surging and electrical noise and induction thunder. But when you use it in worried place about lightning trouble, install lightning arrester to receiver side of signaling.

