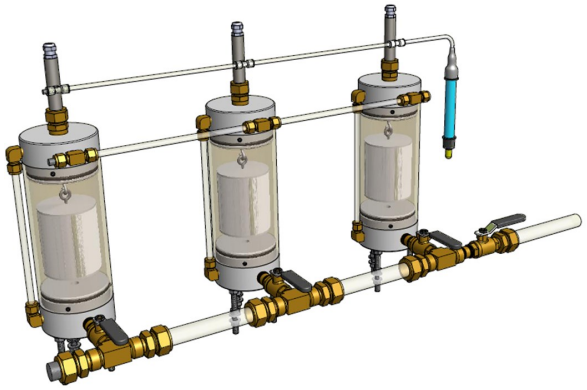
NIVOLIC SG - Settlement System

Settlement Gauge



MULTIPOINT
HIGH PRECISION
LIQUID LEVEL SYSTEM

The NIVOLIC SG is a high precision liquid level system designed to measure relative settlement using vibrating wire transducers.

Description

The **NIVOLIC SG** is a high-precision liquid level system designed to measure relative settlement in a multipoint system. It consists of a series of chambers connected together by a liquid line. In each chamber, a weight is suspended to a vibrating wire transducer.

Changes in elevation of the water level in the chamber modify the buoyancy force acting on the weight, thus modifying the resonant frequency of the vibrating wire. In the multipoint system, one of the chambers is the reference for the calculation of relative movements of all the other chambers. A thermistor is integrated in the gauge, enabling measure of temperature.

Key Features

- Long-term reliability
- High accuracy and resolution
- Frequency signal easy to process and transmit over long distances

Applications

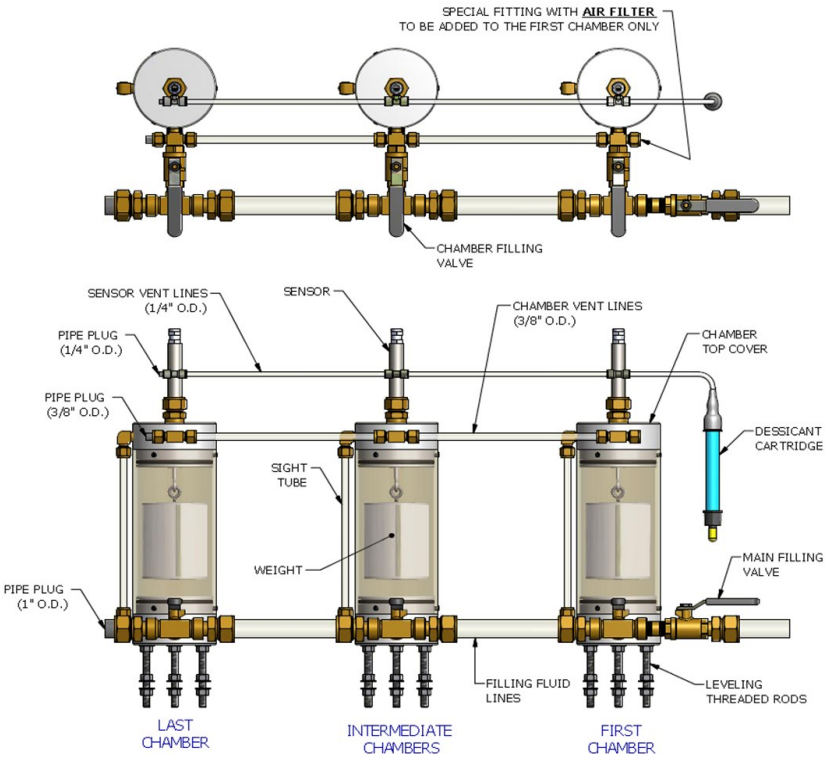
- Dam foundations
- Deflection of bridges
- Building columns
- Floor slabs

NIVOLIC SG - Settlement System

Settlement Gauge

Specifications

Range	100, 150, 300, 450, 600 mm
Accuracy*	±0.1% F.S. (each sensor is calibrated individually)
Resolution	Vibrating wire : 0.02% F.S. (min.)
	Temperature : 0.1°C
Fluid type	Water (optional antifreeze solution)
Cables	IRC-41A : twisted shielded pairs, 22 AWG, with drain wire, PVC jacket, 6.4 mm OD IRC-41AP : Identical to IRC-41A except that the jacket is made of polyethylene
Actuator weight	28 kg



Ordering Information

Please specify:

- Range
- Cable and tube lengths
- Number of chambers

Optional Accessories

- Support brackets

Roctest Ltd,
680 Birch Street
St-Lambert, Quebec
Canada J4P 2N3
DOC: E5150B-160302

Phone +1 450 465 1113
Fax. +1 450 465 1938

Email info@roctest.com
Web www.roctest.com