Level Switch and Measurement Sensor for liquid media
Applications:
Level switches are used for simple control of fluid flow for filling or emptying tanks, sumps, etc. They can also be used for monitoring fluid levels and sending alarm messages when highest or lowest levels have been reached in pumping applications.

Constructional features:
Our level switches are available in several designs. When used as a floating switch, a highly chemical-resistant Hypalon design can be used for the cable or bulb. In this design, the submersible weight is welded to the cable. Other designs which are primarily used in wastewater treatment plants consist of a float housing made of polypropylene and a polyethylene cable which has an adjustable submersible weight clamped onto it. By this method, the difference between switching on and switching off (hysteresis) is easily adjustable. Both designs are fitted with 2-way contacts, i.e. they can be used either for filling or emptying purposes.

Another alternative which is available is level determination using air injection; a small air compressor which is installed in the control cabinet provides air to the tank floor through a tube. The back pressure which is created by the differing water level heights is recorded and evaluated by a manometric switch also installed in the electrical cabinet. Analogue level detection systems are also available on a similar basis or by using ultrasound sensing.

Options:

A) Level switch with fixed plunge weight

B) Level switch with adjustable plunge weight

C) Air provision with analogue pressure gauge and compressor

D1) Ultrasound sensor with installation apparatus

D2) Ultrasound without installation apparatus