ENM-10, liquid level regulator

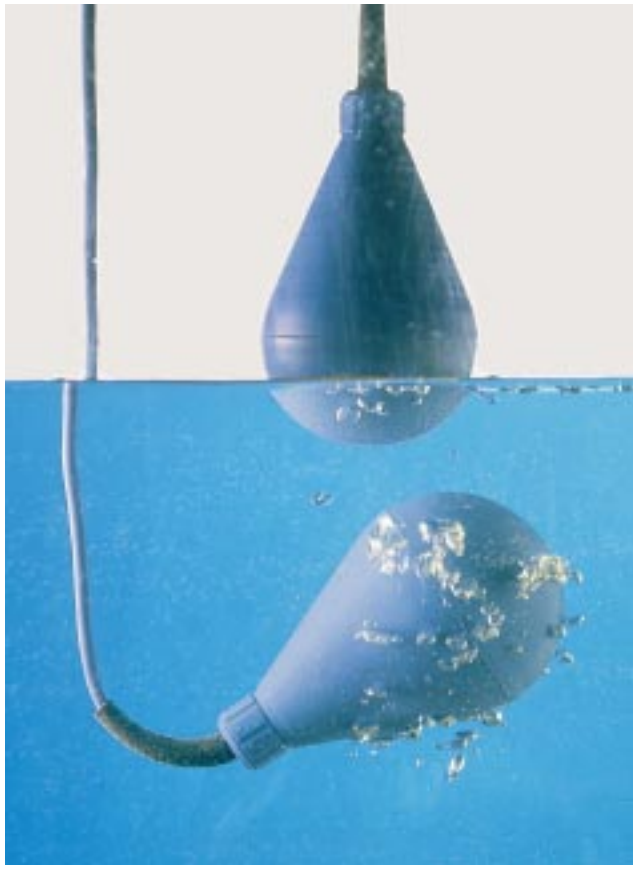
A simple and reliable solution

Flygt

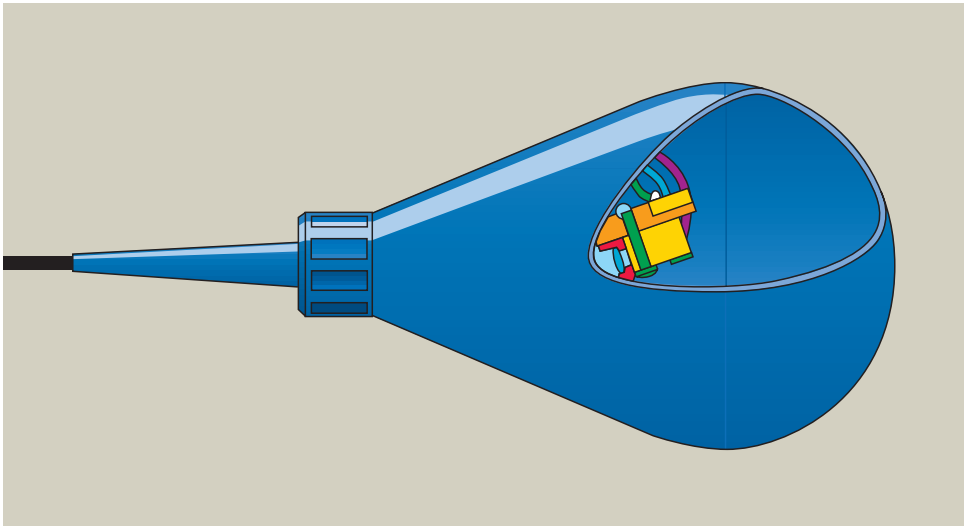
ITT Industries
Engineered for life

ENM-10 level regulator

The simplest possible method for level control
In sewage pumping stations, for ground water and drainage pumping - in fact, for most level control applications - the ENM-10 is the most obvious solution.
When the liquid level reaches the regulator, the casing tilts, activating the internal micro switch, thereby starting or stopping a pump or tripping an alarm device.
The regulator casing is made of polypropylene, a non-stick material resistant to most aggressive liquids. The cable is sheathed with PVC or rubber to avoid the build up of impurities and deposits.
This ensures reliable operation and a minimum of maintenance.
Rather than floating on the surface, ENM-10 hangs immersed in the liquid. This prevents the cables from tangling when several regulators are used.
In a two-pump station, four level regulators are generally used. One is positioned at the stop level, one at each of the pumps start levels, and the fourth regulator is used to trigger a high level alarm.
The ENM-10 is a reliable and environmentally friendly level regulator for use in a variety of applications. No toxic materials (such as lead or mercury) are used in its manufacture. The plastic components are welded and screwed together. Adhesive is never used.
To meet the needs of the large varity of applications ENM-10 is available in both CE and CSA compliant versions. Several versions are available to meet the various market needs. Different lengths of cable can be obtained as standard with the normal density version. The operating temperature range is 0° C up to 60° C.

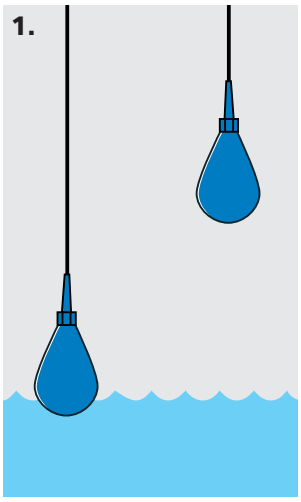


The well-balanced design of ENM-10 makes it hang immersed with its cable stretched, preventing it from tangling with other level regulators. Immersion also counteracts the build-up of deposits.

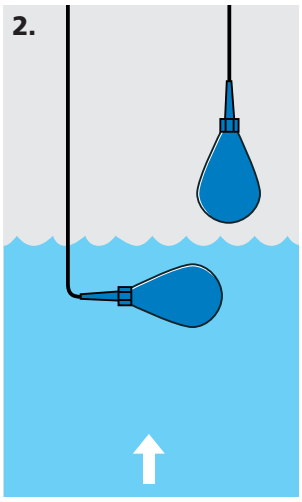


Polypropylene 'non-stick' casing. Bouyancy ratings for most applications.

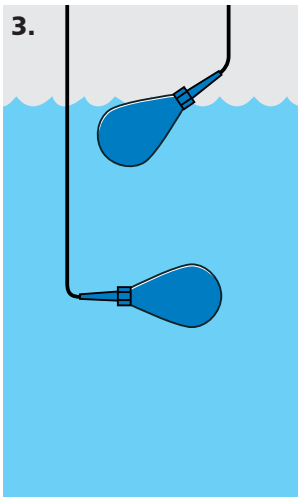
Basic principle



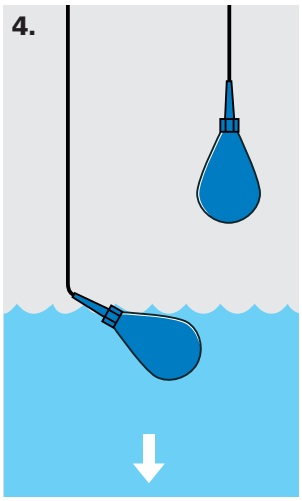
When the level drops, the micro switch is activated and pumping stops



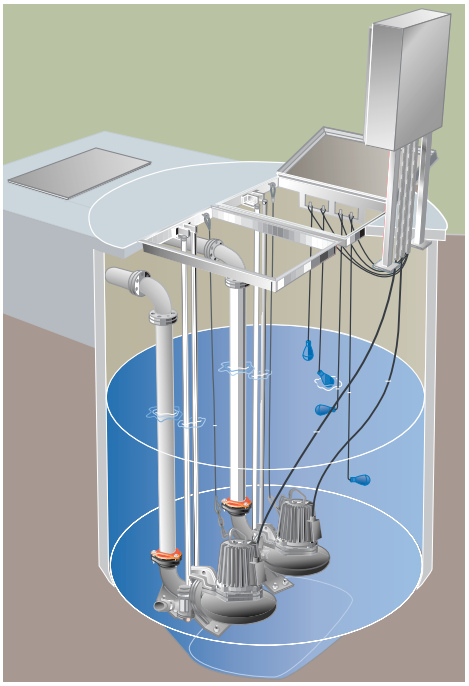
The level begins to rise...



When it reaches the highest permissible point, the second regulator reacts...



and pumping resumes until the micro switch is activaded.



Typically four regulators are used in a two-pump station.

This level regulator is available in different versions, depending upon the medium in which it is to be used.

Dimensions

For density g/cm3	Regulator Length mm	Diameter mm
0.65 - 0.80	194	100
0.80 - 0.95	177	100
0.95 - 1.10	162	100
1.05 - 1.20	142	100
1.20 - 1.30	133	100
1.30 - 1.40	130	100
1.40 - 1.50	126	100

Materials

Body:	polypropylene
Bending relief:	EPDM rubber
Cable:	special compound PVC or chloroprene rubber

Technical data

Liquid temperature:	min. 0°C max. 60°C
Liquid density:	min. 0.65 g/cm3 max. 1.5 g/cm3
Degree of protection	IP68, 20 m

Micro switch data

IC*, AC:	250 V/ 10 A resistive load 250 V/ 3 A inductive load at cosφ= 0,5
IC*, DC	30 V/ 5 A 250 V/ 0,05 A

** IC = Interrupting Capacity*

ITT Flygt is the world's leading manufacturer, supplier and innovator in the submersible pump, mixer and aeration markets. With production facilities on four different continents our products are used everyday in wastewater treatment plants, mines and construction sites, aqua-agriculture, the process industry and numerous other applications. Whilst our experience is utilised by engineers, planners and consultants to ensure reliable and cost-effective use of our systems in all corners of the world.
ITT Flygt is represented in over 130 countries and has 37 sales companies around the world.

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