Flygt ENM-10 liquid level regulators

TRIED-AND-TRUE SIMPLICITY

FLYGT
a xylem brand

So simple, yet so reliable

Proper level regulation is critical for operational reliability. Lack of proper regulation can cause improper operation, pump damage or, in the worst case, overflow that results in environmental and economic consequences. With over a decade of experience and countless satisfied users, the natural choice for level regulation is the Flygt ENM-10.

Simple, reliable and effective

The Flygt ENM-10 level regulators are the ideal choice for most level control applications, such as wastewater pumping stations and ground water or drainage pumping. When the liquid level reaches the regulator, the bulb tilts, activating the internal microswitch, which starts or stops a pump or triggers an alarm device.

Practically maintenance free

The outer casing of Flygt ENM-10 level regulators are resistant to most aggressive liquids. The cable material prevents buildup of deposits and other impurities. Rather than floating on the surface, ENM-10 hangs immersed in the liquid. This prevents the cables from tangling when several regulators are used.

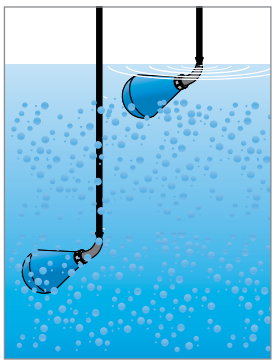
Xylem testing indicates Flygt ENM-10 level regulators last several times longer than most standard level regulators. This ensures reliable operation and a low degree of maintenance, thereby keeping service costs down to a minimum over the life cycle.

Environmentally friendly

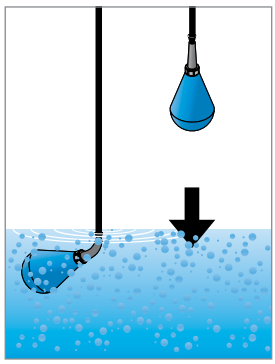
The Flygt ENM-10 level regulator contains no harmful or toxic materials such as lead or mercury and does not require the use of any adhesives. All plastic components are welded and screwed together.

In a two-pump station, four level regulators are generally used. One is positioned at the stop level, one at each pump's start level, and the fourth regulator is used to trigger a high level alarm.

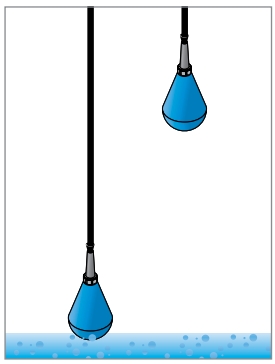
Operating principle



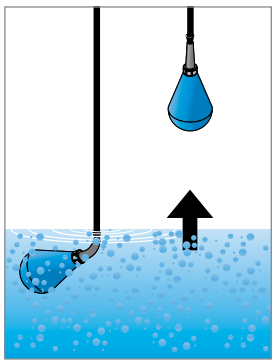
1. Media to be pumped reaches the pre-set level and tilts the upper regulator, which signals the start of the pumping process.



2. The pumping process drains the media.



3. The pumping process stops when the lower regulator returns to the vertical position and signals a stop.



4. The media level begins to rise, starting the process again.

With a variety of installations in mind

The Flygt liquid level regulator comes in two main versions, standard and Ex-approved. Depending upon the media and type of installation, the Flygt ENM-10 is available for a broad range of liquid densities and with many cable lengths from which to choose.

Features

Standard *Ex*

Watertight cable
Encases and protects power supply to the microswitch.

Operational mechanism
Initiates pump start and pump stop through the microswitch when the Flygt ENM-10 tilts or resumes its original position. Delivers reliable performance under all operating conditions including the slow movements often found in stormwater or rainwater installations.

Bending relief (protective sleeve)
Enables watertight, oil-resistant cable entry.

Microswitch
Provides proven quality, performance and reliability for all operating conditions, including switching low currents.

Accessories

Flygt ENM-10 cable holder
Dedicated accessory that reduces the cable wear. Sold separately or as package with the Flygt ENM-10.

Flygt Ex safety barrier
This two-channel safety barrier protects against overvoltage for liquid level regulators. Required when Flygt ENM-10s are to be used in Ex-installations.

Technical data

	Standard version	Ex-approved version
Cable lengths	6, 13, 20, 30 or 50 m* (20, 42, 65,100 or 167 ft.)	6, 13, or 20 m (20, 42 or 65 ft.)
Liquid density	Between 0.95 and 1.10 g/cm³*	Between 0.95 and 1.10 g/cm³
Materials	Body: Polypropylene Bending relief: EPDM rubber Cable: Special compound PVC & NBR/PVC	Body: Conductive polypropylene/carbon black Bending relief: NBR/PVC rubber Cable: NBR/PVC
Liquid temperature	Min. 0°C (32°F) Max. 60°C (140°F)	Min. 0°C (32°F) Max. 60°C (140°F)
Ingress protection	IP 68	IP 68
Electrical range (microswitch)	Interrupting capacity: AC: 250 V/10 A resistive load AC: 250 V/3 A inductive load at cosϕ = 0.5 DC: 24 V/ 10mA min., 6 A max. Note that local regulations may limit the voltage.	Interrupting capacity: AC: 250 V/10 A resistive load AC: 250 V/3 A inductive load at cosϕ = 0.5 DC: 24 V/ 10mA min., 6 A max. Note that local regulations may limit the voltage.
Approvals	CE, CSA, SEMKO, NEMKO, DEMKO	CE, SEMKO, NEMKO, DEMKO, ATEX/IECEX

*Other cable lengths and liquid densities available upon request.

The Flygt ENM-10 is a part of the Level Sensor product range from Xylem, covering most level measuring needs.

Xylem [ˈzīləm]

1) The tissue in plants that brings water upward from the roots
2) A leading global water technology company

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xyleminc.com

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Let's Solve Water

Xylem, Inc.
14125 South Bridge Circle
Charlotte, NC 28273
Tel 704.409.9700
Fax 704.295.9080
855-XYL-H2O1 (855-995-4261)
www.xyleminc.com