



# GENYO Series

ELECTRIC PUMP CONTROL AND  
PROTECTION SYSTEM

# Electric pump control and protection system



## Applications.

Domestic pressure boosting  
(single and multi-family dwellings)

Small irrigation and gardening

Civil water systems (bathing establishments, campgrounds, sporting facilities)

Xylem introduces Genyo, the new range of compact electronic devices, pressure/flow switches for control and protection of electric pumps.

Genyo is controlled by an electronic circuit and is composed of a diaphragm and counteracting spring system integrated with flow and pressure sensors.

Genyo enables automatic control of pump start-up and shutdown based on actual water demand, preventing any pressure fluctuations at delivery points with constant operating point.

Genyo integrates multiple system controls into a single device.

## Benefits.

Protection against dry running integrated in the device

No maintenance required (a convenient alternative to traditional diaphragm surge tanks)

Quick and easy installation

Compact size

Stable pressure without fluctuations at constant operating point

Back-up tank to compensate for small leaks or drips in the hydraulic system (patented system)

Limited flow resistance

For GENYO 16A model only.  
Automatic restart in case of water failure

Adjustable starting pressure



## Product range.

GENYO 8A



GENYO 16A



Model	Accessories included	Max current	Start pressure
GENYO 8A/F12	Pressure gauge	8A	Fixed start P: 1.2 bar
GENYO 8A/F15	Pressure gauge	8A	Fixed start P: 1.5 bar
GENYO 8A/F22	Pressure gauge	8A	Fixed start P: 2.2 bar
GENYO 16A/R15-30	Pressure gauge	16A	Adjustable start P: 1,5 ÷ 3,0 bar

\* Version with Power Supply Cable / Plug and Motor Cable also available  
(for technical details, see "Technical Specifications" section)



Suitable for use with both surface and submersible electric pumps

## Construction characteristics.

LARGE PASSAGEWAY  
for lower flow resistance

SPRING  
made of bichromate  
Treated steel

PATENTED STORAGE SYSTEM  
Permitting the storage of an  
adequate water reserve in a  
limited space

SENSORS  
Made of highly resistant  
thermoplastic material containing  
hermetically inserted ultrasonic-  
welded magnets



LIQUID END MATERIAL  
Made of non-toxic fibreglass-  
reinforced thermoplastic material

DIAPHRAGM AND SEALS  
of special natural rubber for  
higher protection (ip 65)

ELECTRONIC BOARD  
For control, protection and  
connections

NON-RETURN VALVE  
Integrated into one of the  
sensors with magnet

LED INDICATORS  
GREEN LED: POWER  
presence of power supply  
RED LED: FAILURE  
indicates an alarm condition  
YELLOW LED: ON  
indicates the pump is running



MANUAL RESTART  
PUSHBUTTON  
to restart the pump after  
failure

INTEGRATED PRESSURE  
GAUGE  
Range: 0-10 bar



POWER SUPPLY CABLE  
AND PLUG / MOTOR  
CABLE  
only on version with cables



## Product range.

### GENYO 8A.

Power supply voltage: single phase 220-240V

Frequency: 50/60 Hz

Max current: 8A inductive

Protection class: IP 65

Fixed start pressure:

F12: 1.2 bar

F15: 1.5 bar

F22: 2.2 bar

Operating temperature: 0-60°C

Max pressure: 10 bar

Max flow rate: 10 m<sup>3</sup>/h (see flow resistance diagram)

Manual restart

Inlet-outlet connections: R1"

Pressure gauge (0÷10 bar)

Power supply cable and plug /motor:  
H07RN-F 3G1 - L = 1.5 m with Schuko\*  
plug / H07RN-F 3G1 - L = 0.5 m with  
cableheads (on version with cables)

\* UK, AU plug available on request



### GENYO 16A.

Power supply voltage: single phase  
220-240V

Frequency: 50/60 Hz

Max current: 16A inductive

Protection class: IP 65

Adjustable start pressure (by means of  
special screw): R15 - 30 from 1,5 to 3,0 bar

Operating temperature: 0÷60°C

Max pressure: 10 bar

Max flow rate: 10 m<sup>3</sup>/h (see flow resistance  
diagram)

Automatic restart

Inlet-outlet connections: R1"

Pressure gauge (0÷10 bar)

Power supply cable and plug /motor:  
H07RN-F 3G1.5 -  
L = 1.5 m with Schuko\* plug / H07RN-F  
3G1.5 - L = 0.5 m with cableheads (on  
version with cables)


\* UK, AU plug available on request



## Standards and markings.

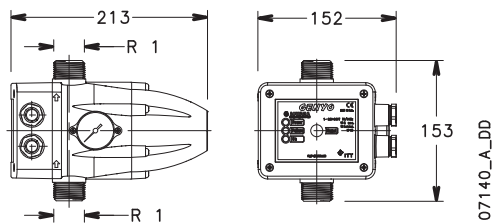
Suitable for use with potable water  
(French ACS approval and according to  
D.M. 06/04/2004 n. 174)

In compliance with  
Directive 2002/95/CE (RoHS)

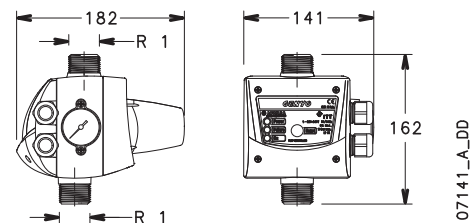
	According to 2006/95/EC (Low Voltage Directive)
	According to 2004/108/EC (EMC Directive)
	EN 60730 - 2 - 6, EN 61000 - 6 - 2:2005, EN 61000 - 6 - 3 :2001

	C-Tick approval
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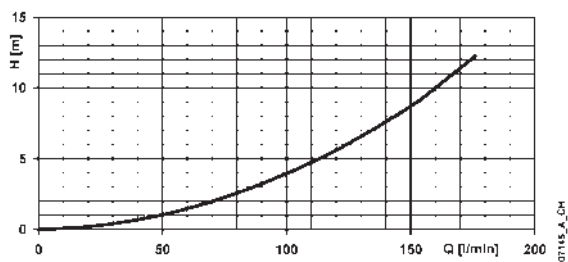
### Dimensional data. GENYO 8A



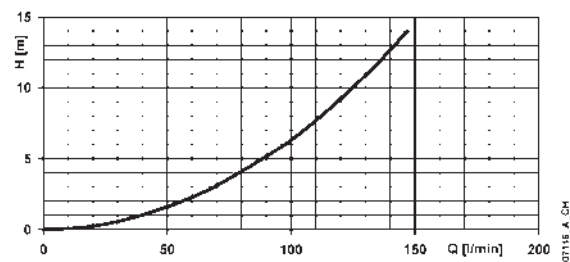
### GENYO 16A



### Flow resistance diagram. GENYO 8A



### GENYO 16A



# What can Xylem do for you?

Xylem ['zīləm]

- 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 [xylem.com](http://xylem.com).**



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