

FlexView FMA90

The versatile control unit for
level and flow measurement





At a glance: FlexView FMA90

FlexView FMA90 is a versatile control unit, available in three different housing variants and compatible with various measuring principles, including radar, ultrasonic and hydrostatic. It is easy to use and ensures a high level of operational security.

Thanks to its flexibility, the unit is ideal for a wide range of applications in the Water & Wastewater industry, such as level measurement in stormwater basins, flow measurement in open channels as well as pump and rake control. In addition, FlexView FMA90 is well-suited for use in the Mining, Minerals & Metals industry, as well as utility operations across all industries.





Added Values

FlexView FMA90 provides outstanding simplicity, highest flexibility, and full compliance.



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Easy to use

Efficient installation,
intuitive control.

Minimize complexity throughout
your measurement activities, from
installation to operation, thanks to
seamless connectivity and intuitive
setups. The touch display ensures
reliable interaction, even when
wearing gloves.



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FlexView FMA90 supplies the sensors via
an integrated, intrinsically safe power
supply. This reduces installation effort in
hazardous areas, as no additional protective
measures such as barriers are required.

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Thanks to guided setup sequences (wizards),
commissioning is easy. Endress+Hauser
sensors are automatically detected and
configured via HART® protocol.

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Access the system remotely from your
control cabinet via Wi-Fi using a mobile
device or desktop computer. On site, the
color touch display ensures intuitive
operation, even when you are wearing
gloves.



Flexible Measurement Control

Versatile solution,
highly adaptable.

Optimize your performance on a
wide range of applications using
a single unit. Streamline your
measurement setup with
flexible sensor integration.





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The control unit processes level information from radar, ultrasonic and hydrostatic sensors via 4–20 mA/HART® interface. It is suited for level measurement as well as flow measurement in open channels, making it adaptable to a wide range of your applications.

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Flexible Measurement Control

Versatile solution,
highly adaptable.

Optimize your performance on a
wide range of applications using
a single unit. Streamline your
measurement setup with
flexible sensor integration.



Connect up to two level sensors
simultaneously – only one device is
needed to monitor two measuring
points. The unit is also equipped with
eight digital switching outputs for
pump control, rake control and flow pulse.

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Flexible Measurement Control

Versatile solution,
highly adaptable.

Optimize your performance on a
wide range of applications using
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flexible sensor integration.



Choose from three different housing
variants to suit your environment:
Field housing for outdoor installation,
DIN rail or panel housing for control
cabinet instrumentation.

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Enhanced security

Reliable protection,
fully compliant.

Increase your data integrity and cybersecurity by meeting industry requirements. Optimize your documentation to master audits successfully.



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Increase your data integrity and cybersecurity by meeting industry requirements. Optimize your documentation to master audits successfully.



FlexView FMA90 is fully compliant with the requirements of the EU Cyber Resilience Act (CRA), providing you with maximum protection and resilience against cyber threats.

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Reliable protection,
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Increase your data integrity and cybersecurity by meeting industry requirements. Optimize your documentation to master audits successfully.



Built to meet your industry's safety demands, this control unit is developed in accordance with key industry standards, including international Gas-Ex and Dust-Ex approvals.

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Enhanced security

Reliable protection,
fully compliant.

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Integrated flow totalizers help record output volumes, providing a reliable basis for your facility's billing or legal reporting. Data logging allows you to manage and visualize stored data for detailed analyses of specific time periods, all in one place.



Benefits at a glance

FlexView FMA90 is the perfect control unit to connect your level sensors. Its features ensure industry compliance while being easy to use.

High security standard – full compliance with EU Cyber Resilience Act (CRA)

Communication via HART®, Ethernet or Wi-Fi

Easy commissioning with guided wizards

Simplified configuration – automatic identification of Endress+Hauser HART® sensors

8 digital switching outputs for pump control, rake control and flow pulse

Versatile installation options – DIN rail, panel or field mounting

Intuitive 3.5" color display with touch control

International Gas-Ex and Dust-Ex approvals

High compatibility with 2-wire or 4-wire level transmitters with 4–20 mA/HART® interface



Industry Focus

FlexView FMA90 is the perfect fit for use in the Water & Wastewater industry. The control unit is suited for a wide range of applications, such as pump and rake control, open channel flow or level rain overflow measurement.





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Your challenges

- Changing weather conditions
- Foam formation

Our solution

FlexView FMA90 and Micropilot FMR20B enable independence from environmental influences such as sun, wind fog or rain with an optional flood protection tube and weather protection cover. Thanks to the integrated flow totalizers FlexView FMA90 easily records output volumes. This data serves as a basis for billing or reporting procedures.

With the help of implemented linearization tables, nonlinear sensor signals are converted into linear output values. Due to the strong, focused beam angle of Micropilot FMR20B, reliable measurement is assured even in the presence of foam.





Industry Focus

FlexView FMA90 is the perfect fit for use in the Water & Wastewater industry. The control unit is suited for a wide range of applications, such as pump and rake control, open channel flow or level rain overflow measurement.

Your challenges

- Foam formation
- Suspended solids or sediments

Our solution

FlexView FMA90 and Micropilot FMR20B help to optimize your process and control the rake. Thanks to measurement before and after the rake, Micropilot FMR20B reliably detects clogging. Depending on the degree of contamination, the cleaning of the rake can be initiated. Due to the strong, focused beam angle of Micropilot FMR20B, reliable measurement is assured even in the presence of foam.





Industry Focus

FlexView FMA90 is the perfect fit for use in the Water & Wastewater industry. The control unit is suited for a wide range of applications, such as pump and rake control, open channel flow or level rain overflow measurement.

Your challenges

- Narrow installation conditions
- Condensate
- Remote access

Our solution

With FlexView FMA90 and Waterpilot FMX21, remote access via mobile devices or desktop computers is possible due to Wi-Fi connectivity. Thanks to its ceramic cell, Waterpilot FMX21 is robust and measures the hydrostatic level reliably. FlexView FMA90 visualizes the pump status constantly and records the pump operation time. This helps optimize the maintenance planning and provides valuable information during the running operation.





Industry Focus

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Your challenges

- Remote access
- Conformity to legal requirements
- Turbulent surfaces
- Condensate

Our solution

Legal requirements state that untreated discharged wastewater quantities must be measured and documented. FlexView FMA90 and Micropilot FMR20B provide the requested measurement data. Wi-Fi connectivity enables remote access via mobile devices or desktop computers for measuring points which are difficult to access. Micropilot FMR20B measures reliably even in the presence of condensate. Furthermore, the device is not affected by turbulent surfaces. Its strong and focused beam angle provides a reliable measurement even in the presence of condensate.



Product Overview

FlexView FMA90

FlexView FMA90 is a versatile control unit designed for efficient, flexible and standard-compliant level and flow measurements.



Flexible use with up to two level sensors across multiple technologies

High security standard due to full compliance with the EU Cyber Resilience Act (CRA)

Remote access to hard-to-reach measurement points thanks to Wi-Fi connectivity

Ease of use thanks to intuitive 3.5" color display with touch control operable with gloves

Fast commissioning with guided setup sequences, tutorials and automatic sensor detection

How-to videos

How-to videos accessible via QR code on the device display simplify setups. The short videos guide you through how to configure for common applications, integrate to existing networks and even customise data visualisations.

A separate QR code links directly to the product page of FlexView FMA90 with full access to the product documentation.



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