

# netMIRROR

Ethernet-Mirror TAP

- Permanent diagnostic access point
- Fully passive network access
- Real zero delay on the network side (< 1 ns)
- For 10BASE-T and 100BASE-TX networks
- The network connection is maintained even when there is no power

## Continuous data access for industrial networks

netMIRROR is the simple, reliable and efficient solution for integrating a permanent test access point (TAP) into your industrial communication networks.

Whether you want to monitor your traffic, quickly trouble-shoot problems or add to your digital services, netMIRROR always keeps an eye on your network and those of your customers.



→ QR Code Link: netMIRROR  
Service-Hotline: +49 (0) 6190 9907-90  
[www.hilscher.com](http://www.hilscher.com)

# Permanent passive test access to your networks – netMIRROR

Stalling production lines, unfulfilled supply contracts and angry customers – no company can afford to stop production due to errors in the communication paths of modern manufacturing. In such a situation, the key is to save time. The fault must be found and corrected quickly so that production can continue to run smoothly.

The netMIRROR test access point (TAP) mirrors the Ethernet data traffic of a factory non-reactively.

Located immediately after the controller, the netMIRROR TAP allows the uninterrupted connection of a diagnostic device during operation. In addition, the passive design of TAPs gives them protection from possible unintentional interference from a connected diagnostic device or a PC for telegram recording.



## Three areas of application



### Service providers

- Uninterrupted access to the network
- Non-reactive - No influence on data communication during operation
- System independent - Works for all 100Mbit systems
- Positioning and visibility at the end-customer thanks to OEM device
- Proven technology minimizes development costs and risks



### Solution providers

- Offer added value to customers in terms of data analysis and the corresponding services
- Proven technology: Save development costs and minimize risks
- Position yourself as a full-service provider with your end customers



### Plant operators

- The most compact device on the market
- Access to the network during operation
- Non-reactive - Device is invisible even for cable testers
- System independent - Works with all standard 100Mbit network systems
- Proven technology without development costs and risks

## netMIRROR is...

1

### ... the access point for your service offering

For service providers, an accurate picture of the state of a plant's communications network is absolutely essential. That makes the selection of access points for data analysis enormously important. netMIRROR gives you fast and permanent access to your customers' systems, and enables you to implement your services reliably.

To prevent data sets being misinterpreted, you also need to be able to rely on the measurement results of your tools. netMIRROR has already proven its reliability in numerous tests and customer applications in direct comparison with its competitors.

2

### ... the addition to your product portfolio

As a component manufacturer, you are the point of contact for your customers when it comes to components for their systems. And your customers need access points for data analysis or diagnostics, not only so that they can respond quickly to errors but also so they can implement predictive maintenance applications.

With netMIRROR you can rely on proven technology from the expert in industrial communication. Save on high development costs and the associated risks while positioning yourself as a complete provider with network access and data analysis know-how for your end customers.

3

### ... the solution for plant operators and machine manufacturers

No two plants are the same: Each is a highly complex system in itself. Plant-specific features mean that errors in communication networks are often very difficult to detect. That makes it all the more important to have reliable access points for diagnostics and troubleshooting in an emergency. In addition, such accesses are expressly recommended by the PROFINET user organization (PNO) for PROFINET networks.



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# Product Information

## Technical Data

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**Operating temperature**

-20 ... +70 °C

**Dimensions (L x W x H)**

120 × 22,5 × 107 mm

**Certification**

CE Sign, RoHS (UL being prepared), UKCA

**Protection class**

IP20

**Forwarding delay network side**

Real Zero-Delay TAP < 1 ns signal delay

**LEDs**

Power supply input and output active

**Mounting**

DIN rail, DIN EN 60715

### Technical Data

**Network ports**

10BASE-T or 100BASE-TX Ethernet, 2x RJ45  
(e.g. PROFINET, EtherNet/IP, EtherCAT, Sercos, Modbus/TCP, Ethernet POWERLINK, Varan)

**Mirror ports**

10BASE-T or 100BASE-TX Ethernet, 2x RJ45, receive only, send suppressed

**Operation without power supply**

Network ports operational even without power supply / Mirror ports disabled without power supply

**Power supply input**

nominal +24 V, +18 ... +30 V, 1.5 W, Combicon

**Power supply output**

Forwarding of power supply, max. 1 A at +24 V, Combicon, for powering an attached diagnostic device

*Note: All technical data may be changed without further notice.*

### Article Overview

NMR-TFE-RE

7340.100

netMIRROR 10/100 MBit Ethernet Mirror-TAP



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