

MICROSENS
fiber optic solutions

NEW
Installation Switch
with TP Uplink



over Ethernet

New Installation Switch for Copper Networks

Since many years MICROSENS is successfully establishing its Fiber To The Office (FTTO) concept into the market. Based on a centralized optical fiber network special Mini Switches for the integration into cable channels or floor tanks are deployed right at the desk. In this way the end user can use network devices with copper ports whilst being part of a fiber optical network.

Now MICROSENS offers an Installation Switch with Twisted Pair uplink. Beside the connection to the central network the switch can also be powered over the uplink port via Power-over-Ethernet.

Powered Device

The power of max. 15,4 W (according to PoE class 0) received via the uplink port is not only used for the own supply but also offered for the supply of end devices connected to the user ports.



Power-over-Ethernet

Power Supply via the Network Connection

For the first time, thanks to the implementation of the IEEE 802.3af standard, network based terminal units like IP-phones, WLAN-access points or IP-cameras can be supplied with electrical power directly from the data cable. The electrical power is transmitted in parallel to the data via the data cable. Therefore a separate 230 V power supply is not necessary anymore.

Safety and Compatibility

For safety reasons and in order to protect non IEEE 802.3af compatible devices the power supply is only switched on after checking the connected device. During the operation the supplied power is continuously monitored. If the accepted limit is exceeded, the power supply is automatically interrupted.



Switch as Power Injector

The IP-telephony growth strengthens the demand for products with copper uplink. The main application is the upgrade of existing copper networks with Power-over-Ethernet (PoE) functionality.

Easy to upgrade

The PoE upgrade is focussed on the end user side, therefore existing central switches can be deployed further. The central coupling of Power-over-Ethernet by means of so called power injectors (mid span devices) is eliminated, thus leading to a much lower power density in the central distribution rack.

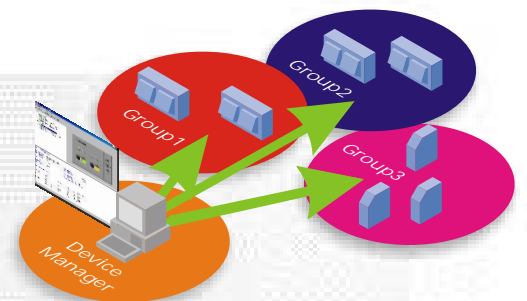
The Installation Switch is easy to install in the cable channel instead of the passive twisted pair socket. The power supply is realized via an external power supply unit. With a total power of 65 W the supply of the switch itself and the connected Power-over-Ethernet end devices with max. 4x15, 4 W is secured.



Management

Beside the standard management systems e. g. SNMP and Telnet the Installation Switch can be configured and monitored via the Device Manager Software platform.

Functionalities like VLANs, data priorities (QoS) and Power-over-Ethernet can be adjusted detailed. The functionality of the switch can be upgraded via firmware update without hardware operation at any time.



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System Components

Installation Switch with Power-over-Ethernet

MS450154PM-48 Fast Ethernet Installation Switch, 5x 10/100Base-TX Ports, integrated PoE-controller, can be used as Powered Device (PD) and as Power Source Equipment (PSE)



MS700765 Power supply 48 VDC / 1,35 A 65 W for Installation Switches with Power-over-Ethernet option



Installation Switch without Power-over-Ethernet

MS450150M Fast Ethernet Installation Switch, 5x 10/100Base-TX Ports, manageable integrated 230 VAC power supply



Management Software

MS200150 Device Manager PC-Software V3.x
MICROSENS Switch-Management



Installation Accessories

MS140029 Universal mounting set for cable channels; two-piece: frame S99 + MS mounting plate, suitable for 45x45 Installation Switch



MS140026 Mounting set or Ackermann sub floor tanks, three-piece: double box with covers and bind plate suitable for 45x45 Installation Switch



MS140027 Mounting set or Ackermann sub floor tanks, four-piece: triple box with 2 covers and blind plate suitable for 45x45 Installation Switch



MS140018 Wall mount box set for 45x45 Installation Switch; four-piece: box and 3 blind plates



MICROSENS GmbH & Co. KG
Kueferstr. 16
D-59067 Hamm / Germany
Tel.: +49 (0) 2381 / 9452-0
Fax: +49 (0) 2381 / 9452-100
E-Mail: info@microsens.de

www.microsens.com