

# OttoE H Series

Hardened Unmanaged 8/16-port Fast/Gigabit Ethernet Switch



## Overview

EtherWAN's OttoE H Series is a hardened unmanaged Ethernet switching platform, designed for easy deployment in harsh environments with limited space. The OttoE H Series is an economic easy-to-use device, which provides essential industrial Ethernet networking functionality.

It supports 9 to 55VDC redundant power input, and also provides relay alarm for power failure. The OttoE H is equipped with Fast/Gigabit Ethernet ports, or a combination of Fast/Gigabit Ethernet copper ports and 100 or 100/1000 Mbps dual rate SFP ports for long distance connectivity.

This versatile switch features full/half-duplex auto-negotiation and auto MDI/MDIX operation, allowing for convenient connection of a variety of network devices. QoS (Quality of Service) support allows for traffic prioritization and effective management of resources. A rugged, DIN rail mountable metal housing provides security and easy installation (mounting kit is included).

EtherWAN — "When Connectivity is Crucial."

## Highlight

### + Range of Operating Temperatures

Supports Hardened Grades

### + High Reliability

Fanless design

### + SFP Connectivity

Up to two 100/1000BASE SFP option

### + Quality of Service

PROFINET (TG100H), EtherNet/IP

## Specifications

### + Interface

#### Ethernet

10/100BASE-TX: 6/8/14/16-ports

10/100/1000BASE-TX: 6/8-ports

100BASE-SFP: 0/2-ports

100/1000BASE-SFP: 0/2-ports

#### Alarm Contact

One relay output with current 0.5A@30V (8-port Series)/0.5A@48V (16-port Series)

#### LED Indicators

Per Unit: Power 1 (Green), Power 2 (Green), Fault (Red)

Per Port: Link/Activity (Green)

Per Port: Speed (Yellow) (16-port Series)

### + Physical

#### Casing Material

Metal

#### IP Rating

IP30

#### Dimensions

8-port series: 45 x 75 x 100mm (W x D x H) (1.77" x 2.95" x 3.94")

16-ports series: 80 x 91 x 100mm (W x D x H) (3.15" x 3.58" x 3.94")

#### Weight

8-port Series: 336g (0.74lbs)

16-port Series: 502g (1.11lbs)

#### Installation Type

DIN-Rail (Top hat type 35mm) mounting

## + Technology

### Standards

IEEE 802.3 10BASE-T  
IEEE 802.3u 100BASE-TX/FX  
IEEE 802.3az Energy Efficient Ethernet  
IEEE 802.1p Quality of Service (QoS)  
IEEE 802.3ab 1000BASE-T  
IEEE 802.3z 1000BASE-SX/1000BASE-LX

### Forward/Filtering Rate

14,880pps for 10Mbps  
148,810pps for 100Mbps  
1,488,100pps for 1000Mbps

### Packet Buffer Memory

768K bits (TF100H)  
1.5M bits (TG100H)

### Processing Type

Store-and-Forward  
Auto Negotiation  
Half-duplex back-pressure  
Auto MDI/MDIX

### Address Table Size

2K MAC (TF100H)  
4K MAC (TG100H)

## + Regulatory

### ISO

Manufactured in ISO-9001 facility

### EMI

FCC Part 15 Class A  
VCCI Class A  
EN 61000-6-4  
ICES-003  
EN 55032

### EMS

EN 61000-6-2  
- EN 61000-4-2 (ESD)  
- EN 61000-4-3 (Radiated RFI)  
- EN 61000-4-4 (Burst)  
- EN 61000-4-5 (Surge)  
- EN 61000-4-6 (Induced RFI)  
- EN 61000-4-8 (Magnetic field)

### Safety

UL 61010

### Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)  
IEC 60068-2-27 Ea (Shock)  
FED STD 101C Method 5007.1 (8-port Series)  
IEC 60068-2-31 (16-port Series)  
(Free fall w/package)

### Industrial

EN 50121-4

### Traffic

NEMA TS2

## + Power

### Input

9-55VDC (Terminal Block)

### Power Consumption

3.4W max. (8-port Series)

3.72W max. (16-port Series)

### Protection

Reverse Polarity Protection

## + Warranty

### Length

Limited Lifetime

### Details

[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

## + Environmental

### Operating Temp.

-40 to 75°C (-40 to 167°F)

### Storage Temp.

-40 to 85°C (-40 to 185°F)

### Relative Humidity

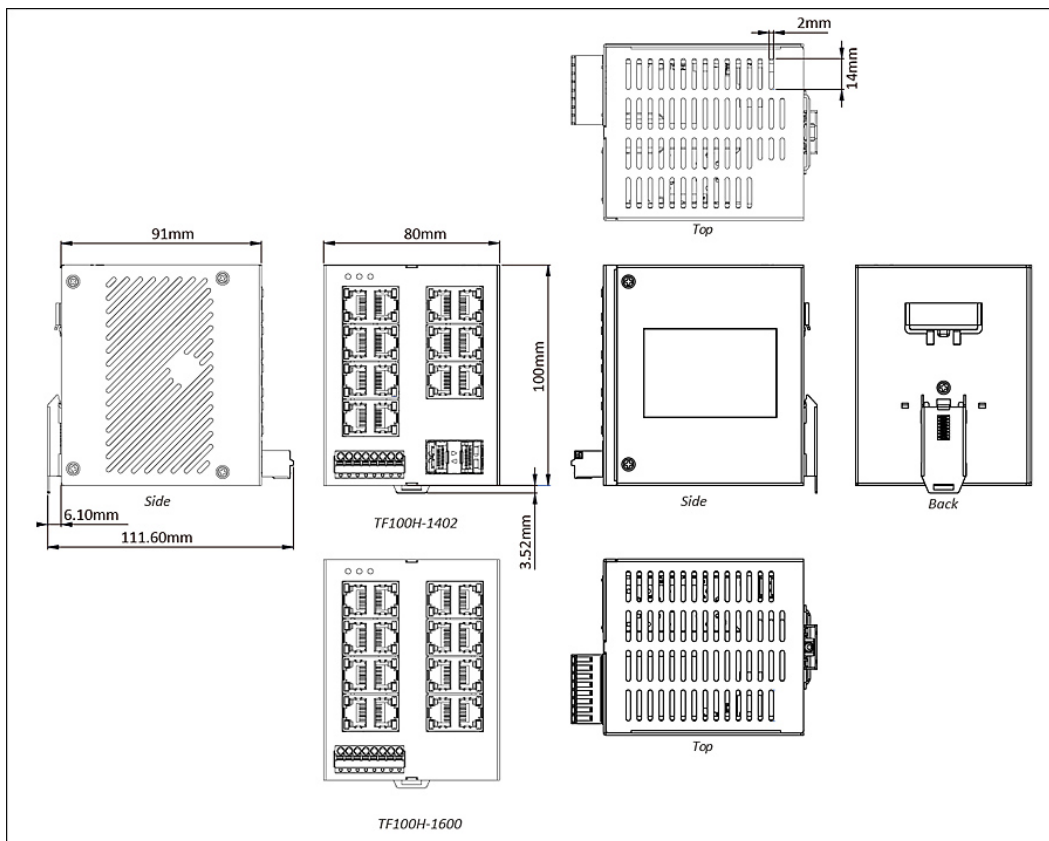
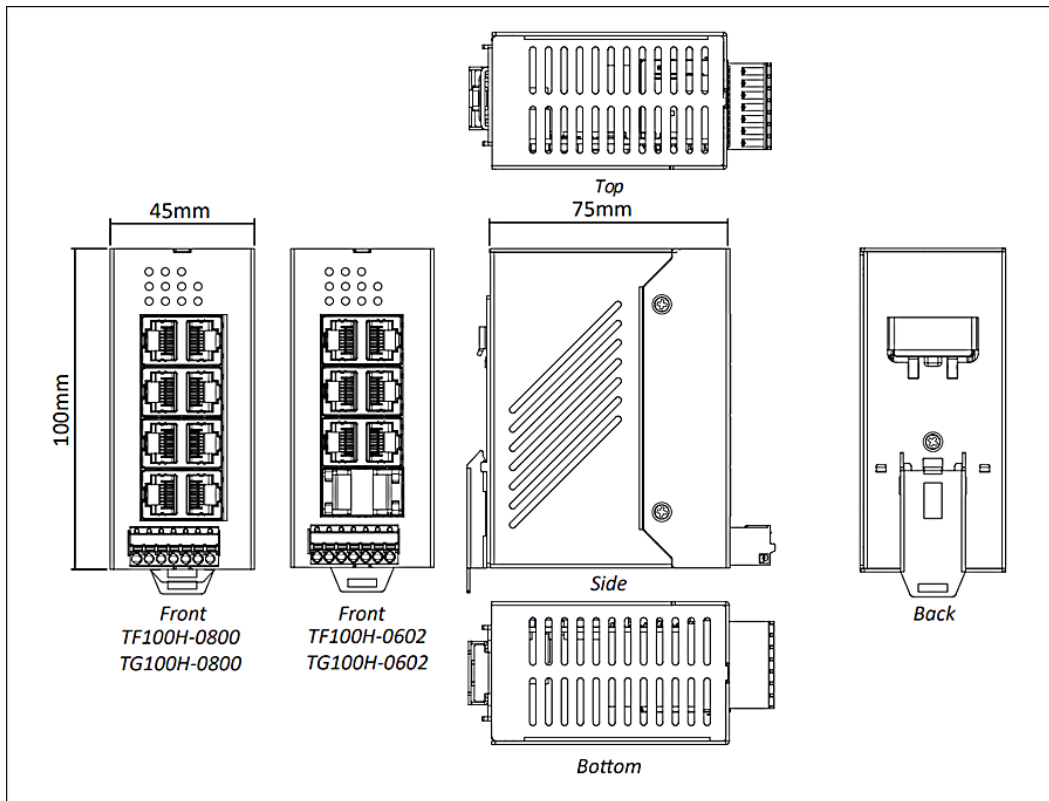
5% to 95% (non-condensing)

## + What's Included

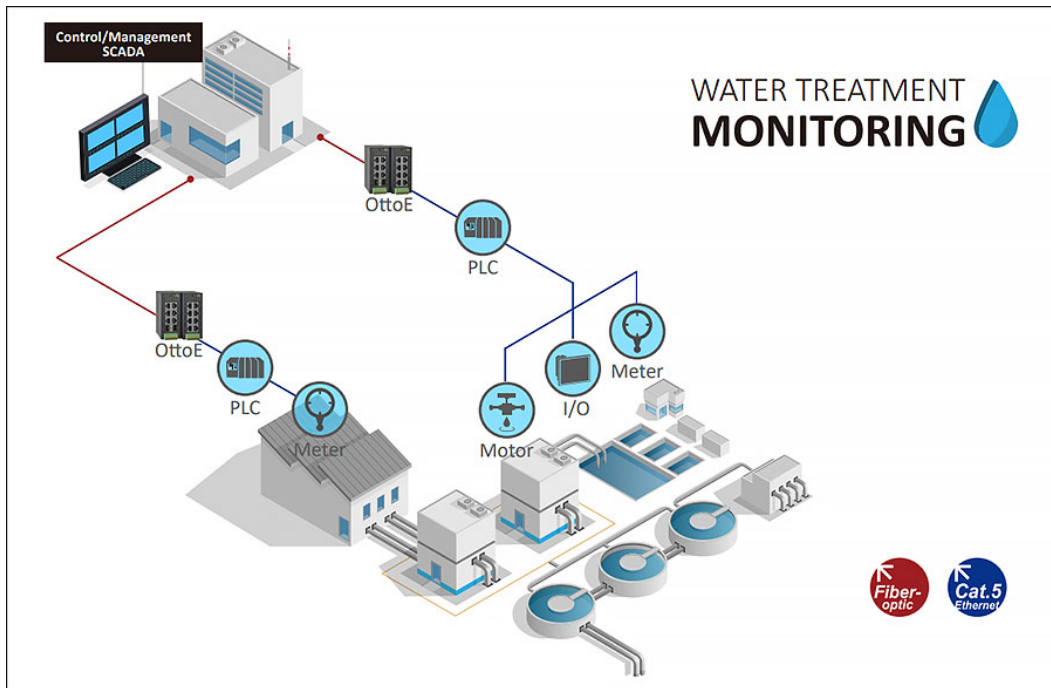
### Device

Ethernet switch

# Dimensions



# Application



## Ordering Info

### + Model

#### Fast Ethernet Models

<b>TF100H-0800</b>	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
<b>TF100H-0602</b>	6-port 10/100BASE-TX+2-port 100BASE SFP Hardened Unmanaged Ethernet Switch
<b>TF100H-1600</b>	16-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
<b>TF100H-1402</b>	14-port 10/100BASE-TX+2-port 100BASE SFP Hardened Unmanaged Ethernet Switch

#### Gigabit Ethernet Models

<b>TG100H-0800</b>	8-port 10/100/1000BASE-TX Hardened Unmanaged Ethernet Switch
<b>TG100H-0602</b>	6-port 10/100/1000BASE-TX+2-port 100/1000BASE SFP Hardened Unmanaged Ethernet Switch

### + Optional Accessories

<b>HDR-30-24</b>	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
<b>HDR-60-24</b>	60W/2.5A DIN-Rail 24VDC Industrial Power Supply

<b>100BASE SFP Modules</b>	<a href="http://www.etherwan.com/products/sfp-fiber-transceiver">www.etherwan.com/products/sfp-fiber-transceiver</a>
<b>Gigabit SFP Modules</b>	<a href="http://www.etherwan.com/products/sfp-fiber-transceiver">www.etherwan.com/products/sfp-fiber-transceiver</a>

