

# INS-8005

## Unmanaged Industrial Ethernet Switch

5-port 10/100Base-TX



### Description

Volktek's INS-8005 unmanaged industrial fast ethernet switch specifically designed to suit your heavy industrial environments. Switch provides 5-port 10/100Base-TX in a rugged, hardened case and components able to withstand a high degree of vibration and shock and an operating temperature from 0°C to 70°C (wide temperature from -40°C to 70°C for INS-8005W). Not an ordinary industrial switch, the INS-8005 is engineered and designed especially for harsh and extreme industrial type applications. With its hardened case, redundant DC power inputs, and high performance components, the INS-8005 is perfectly suited for your extreme industrial automation environment.

The INS-8005 provides varied choice of deployment locations even in harsh environments with wall-mount and Din-Rail options in a quick and easy way with no configuration required. Every INS-8005 is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. Each port of INS-8005 has 2 LEDs to show the link status transmission speed which making troubleshooting the device a simple task.



### Features Highlight

#### Robust Switch Performance

With IP30 metal case, surge protection, power voltage drop alarm, and ESD protection, the INS-8005 provides a high level of immunity against electromagnetic interference and heavy electrical surges which are easy to deploy in industrial environments. Furthermore, the INS-8005 offers high performance switch architecture with 5 ports of 10/100Based-TX to meet the requirements of high-bandwidth access Ethernet, Fast Ethernet in tough operating temperatures.

#### Simplified Installation w/ Compact Size

The INS-8005 provides varied choice of deployment locations even in small places, harsh environments with its wall-mount and Din-Rail options in a quick and easy way by its compact size and no configuration required. Every INS-8005 is equipped with auto MDI/MDI-X on all ports for simple connection to other switches and hubs. With diagnostic LEDs panel, the INS-8005 allows you to know switch status and simplify troubleshooting.

### Applications

The INS-8005 is compatible with 10/100Mbps through RJ45 transceivers to guarantee a strong, stable connection of Ethernet, Fast Ethernet, as an ideal solution for deployment in multiple high-speed automation systems



**Specifications**

Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3x	Flow Control
Performance	
Throughput	14,880 pps to 10 Mbps ports 148,800 pps to 100 Mbps ports
Switch Fabric	1.6Gbps
MAC Table size	8K
Jumbo Frame Size	9K
Power	
Input Voltage	18~30V DC
Connection	Terminal block
Power Consumption	3W (Max)
Surge Protection	6KV
ESD Protection	8KV
Interface	
Ports	5 x 10/100Base-TX (RJ45)
Mechanical and Environment	
Housing	Metal Case (IP30 protection)
DIN-Rail Mounting	Metal
Operating Temperature	0°C to 70°C (INS-8005)
Wide Operating Temperature	-40°C to 70°C (INS-8005W)
Operating Humidity	10 to 80% RH (non-condensing)
Storage Humidity	5 to 90% RH (non-condensing)
Weight	145g
Dimension	23.4x109.2x73.8mm (WxHxD)

Standards and Certifications		
EMI	CE	FCC Part 15 Subpart B class A EN55022 EN 55011 EN 61000-6-4
		EN 55024 EN 61000-6-2 : IEC 61000-4-2 ( ESD ) : Level 3 IEC 61000-4-3 ( RS ) : Level 2 IEC 61000-4-4 ( Burst ) : Level 3 IEC 61000-4-5 ( Surge ) : Level 3 IEC 61000-4-6 ( CS ) : Level 3
Approval & Test		
Marine	DNV 2.4, IEC-60945, IACS E10 (Processing)	
Shock	IEC 60068-2-27 (Processing)	
Freefall	IEC 60068-2-32 (Processing)	
Vibration	IEC 60068-2-6 (Processing)	
Ordering Information		
INS-8005	5-Port 10/100Base-TX Unmanaged Industrial Switch	
INS-8005W	5-Port 10/100Base-TX Unmanaged Industrial Wide Temperature Switch	

*\*Specifications subject to change without notice.*

**Dimension**

