

**8 Switch On Power to Controller**

**9 Check STAT, BEAT and PWR Indicators**

Normal operation indication	
STAT	☀
BEAT	☀●
PWR	☀

Fault indications	
STAT	● Contact technical support.
BEAT	☀ or ● Contact technical support.
PWR	● Contact technical support.

**10 Configure Controller**

Model	Instructions
TONN8	TONN8 Configuration Manual (TE201415)
HAWK 8000	HAWK 8000 Installation & Commissioning Instructions (EN1Z-1016GE51)

中国电子电气产品中有毒物质的名称及含量  
China EEP Hazardous Substance Information

10 Restricted Materials Above Threshold

部件名称与型号 Assembly Name and Model		有害物质 Hazardous Substances					
型号 Model	部件名称 Assembly Name	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
HON-NXEM-232	PWB 组件	X	O	O	O	O	O
HON-NXEM-LON	PWB Assemblies	X	O	O	O	O	O
HON-NXEM-2X485							

本表格依据 SJ/T 11364 的规定编制。  
This table is prepared in accordance with the provisions of SJ/T 11364.

O 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。  
Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。  
Indicates that said hazardous substance contained in all of the homogeneous materials for this part is above the limit requirement of GB/T 26572.

未列入表内的其他部件, 皆不含任何超出限量要求的限制使用物质。  
All other components, not listed in the table, do not contain restricted substances above the threshold level.

电子电气产品的环保使用期限依据 SJ/T 11388 标准的规定确定。  
The EPUP value of EEP is defined according to SJ/T 11388 standard.



Subject to change without notice.

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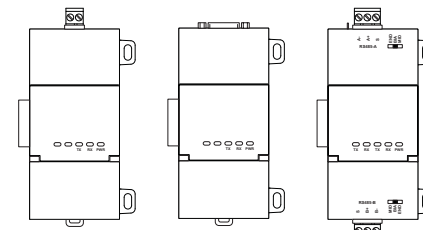
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Mounting Instructions  
**HON-NXEM-xxx**  
Expansion Modules

**Important: Retain these instructions**

These instructions shall be used by trained service personnel only. If the equipment is used in a manner not specified by these instructions, the protection provided by the equipment may be impaired.



HON-NXEM-LON HON-NXEM-232 HON-NXEM-2X485

It is recommended that the installation should comply with the local electrical safety installation practices (e.g. HSE Memorandum of Guidance on Electricity at Work Regulations 1989, USA National Electric Code).

**WARNING:** Contains no serviceable parts. Do not attempt to open the unit. Failure to comply may cause damage to the unit and void warranty.

**WARNING:** Removal of cover exposes dangerous voltages.

**ATTENTION:** Observe precautions for handling. Electrostatic sensitive devices.

**1 Check Location Requirements and Install Controller**

Model	Instructions
TONN8	TONN8 Installation Instructions - Mounting (MU1B-0638GE51)
HAWK 8000	HAWK 8000 - Mounting Instructions (MU1Z-1016GE51)

Temperature: -20°C (-4°F) to +60°C (+140°F)  
Humidity: 5 to 95%RH  
Altitude: <2000m (6562')  
Pollution degree: 3

**2 Switch Off Power to Controller**

24 Vac  
24 Vdc

**3 Mount Expansion Module(s)** (maximum 4 modules)

**DIN Rail Mount**

Fit DIN Rail End Stops

**Surface Mount**

64mm (3.31")  
2x M3.5

**4 Connect RS-232** (HON-NXEM-232)

≤ 15 m (50 feet)

DB-9(M) / DE-9(M)	Pin	Signal
	1	not used
	2	RXD
	3	TXD
	4	not used
	5	GND
	6	not used
	7	not used
	8	not used
	9	not used

**5 Connect LON** (HON-NXEM-LON)

0.13 – 3.3 mm<sup>2</sup>  
(26 – 12 AWG)  
7 mm (0.28")  
0.4 – 0.5 N-m  
(3.5 – 4.4 lbf-in)

≤ 64 devices

LON FTT Bus

**i** www.echelon.com  
LonWorks FTT-10A Free Topology Transceiver User's Guide (078-0156-01F)  
Junction Box and Wiring Guidelines for Twisted Pair LonWorks Networks (005-0023-01)

**6 Connect RS-485** (HON-NXEM-2X485)

0.33 – 0.82 mm<sup>2</sup>  
(22 – 18 AWG)  
7 mm (0.28")  
0.4 – 0.5 N-m  
(3.5 – 4.4 lbf-in)

≤ 32 devices

RS-485-A  
RS-485-B

**i** For recommended cable types and maximum cable lengths please refer to the documentation for the connected devices.

**7 Set RS-485 Bias/Termination** (HON-NXEM-2x485)

Switch Position	Bias Resistors	Termination	Use When Module...
BIA	2.7KΩ	None	... is located in the middle of a trunk that is not biased elsewhere.
END	562 Ω	150 Ω	... is located at the end of a trunk that is not biased elsewhere.
MID	47.5KΩ	None	... is located in the middle of a trunk that is already biased.