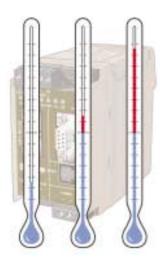
General Technical Information



General technical information and classification of the environmental conditions that Westermo products withstand, at operation, storage and transport, unless otherwise specified in the product installation manual.

DIN-rail products

Environment Industrial, stationary use Location Totally weather protected enclosed location.

In some products and in certain respects there may be different environmental and mechanical conditions.

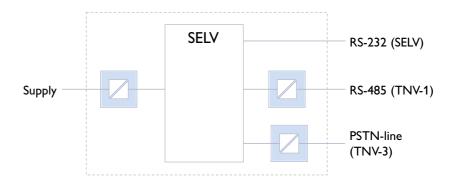
Environmental and mechanical conditions

	Requirement		
Factor	Severity	Standard	Comments
Temperature	+5 to +55°C (+41 to 131°F)	IEC 721-3-3	
Operating	-25 to +70°C* (-13 to 158°F *)		
Temperature	–25 to +70°C (–13 to 158°F)	IEC 721-3-1/2	
Storage & transport			
Relative humidity	5 to 95%, non-condensing	IEC 721-3-3	Do not use until temperature
Operating			and humidity have stabilized
Relative humidity	5 to 95% condensation allowed	IEC 721-3-1/2	Product in packaging
Storage & transport	outside packaging		
Airborne contaminants	G2 (1000 Å=0.1 µm) Moderate	ISA 71.04	Product installed in IP 21
severity level			enclosure, or better, with
			limited air flow (no fan)

* Extended temperature range

Electrical conditions

	Requiren	nent	
Factor	Severity	Standard	Comments
Emission	EN 61000-6-3	EN 55022	
	Residential	class B	
Immunity	EN 61000-6-2	EN 61000-4-2	
,	Industrial	EN 61000-4-3	
		EN 61000-4-4	
		EN 61000-4-5	
		EN 61000-4-6	
		EN 61000-4-8	
		EN 61000-4-11	
	Information Technology Equipment	EN 55024	
Power supply (LV)			
Rated voltage range	12 to 48 VDC		
Operating voltage range	9.6 to 57.6 VDC		
Power supply (HV)			
Rated voltage range	95–240 VAC		
	110-250 VDC		
Operating voltage range	85.5–264 VAC		
	88–300 VDC		
Rated Power supply	48 – 62 Hz		
frequency range			
Reverse polarity	Yes		
protection			
Short circuit	As a part of the		
protection	building installation		
TNV-3	Maximum		
	70.7 V peak / 120 VDC		PSTN or similar
TNV-1	Maximum		
	42.4 V peak / 60 VDC		RS-422/485, Ethernet or similar
SELV	Maximum		
	42.4 V peak / 60 VDC		RS-232 or similar



Safety conditions

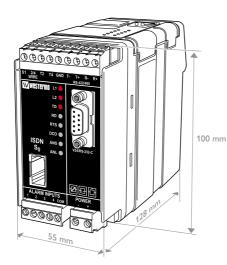
	Requirement		
Factor	Severity	Standard	Comments
Electrical safety	Information technology equipment	EN 60 950	
Service life	10 years		
Supply connection	Permanently connected		
Accessibility	Restricted access location		Access, by service personnel and by tool
Maintenance	No		
Isolation			
Circuit	To Circuit(s)		Electric strength
Supply	All other		≥1 kVAC
Supply HV	All other		3 kVAC
SELV	TNV-1,TNV-3		1 kVAC
TNV-1	TNV-3		1 kVAC
TNV-1	TNV-1		1 kVAC
TNV-3	TNV-3		1 kVAC

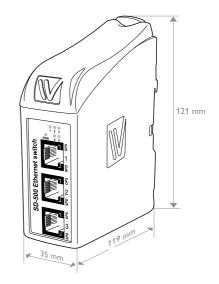
Installation conditions

Installation	Inst. Cat	Cable type	Port	Comments
Power supply	II		Power	
Power supply (HV)	II		Power	
TNV-3				
(<70.7 Vp 120 VDC)	I	Unshielded	Signal balanced	PSTN or similar
TNV-1				
(<42.4 Vp 60 VDC)	I	Twisted pair,	Signal balanced	RS-422/485,
		unshielded		Ethernet or similar
SELV				
(<42.4 Vp 60 VDC)	I	Unshielded	Signal	RS-232 or similar

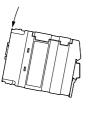
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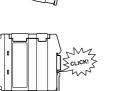
DIN-rail versions

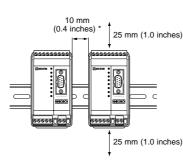




Mounting

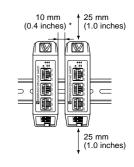






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Enclosure

Factor	Severity	Standard	Comments
Dimension (W x H x D)	55 x 100 x 128 (2.17 x3.94 x 5.04)		2 card DIN-rail
mm (in)	35 x 121 x 119 (1.43 x 4.76 x 4.69)		1 card DIN-rail
Weight kg (pounds)	< 0.6 (<1.3)		
Mounting	35 mm DIN-rail	EN 60715	Snap on mounting
		(EN 50022)	
Degree of protection	IP 20	IEC 529	
Cooling	Convection, spacing:		Spacing (left/right)
	10 mm (0.4 in) (left/right) *		recommended for full
	25 mm (1.0 in) (above/below)		operating temperature range
Enclosure material	PC / ABS		
Fire rating	Flammability class V-0	UL 94	

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