

## Vector TLR Series

The TLR series controllers are an out of the box solution suitable for use on HVAC systems, available in several configurations to suit your requirements. The TLR series are simple to install, and easily applicable to the following control strategies:



### FEATURES

- Multiple configuration types available
- 7 day timeclock standard
- Energy saving features
- Cost saving option with economy functionality and set point limitation
- Designed in Switzerland
- Blackbox retrofit control option, like for like wiring
- Relay switching up to 10(6) A
- LCD Display Touchpad with backlight and inbuilt temperature sensor

### APPLICATIONS

- DX plant with reverse cycle
- DX plant with electric heating
- Water cooled reverse cycle with pump call
- Water cooled electric heat with pump call
- Chilled water modulating cooling (D42-311A model)
- Staged electric heat ( D5P-122 model)
- 2 stage reverse cycle ( D5P-122 model)
- 3 speed fan control ( D42 -311A and D5-311R model)
- Master - Slave option, one terminal can drive up to 8 base units in parallel

# Vector TLR Series

TECHNICAL SPECIFICATION			Vector TLR
Power Supply	Operating Voltage	Voltage	230VAC ± 10%
		Frequency	50/60 Hz
		Power Consumption	Max 5VA
		Electrical Connection	Terminal connectors, 0.34 to 2.5mm <sup>2</sup> wire
Communication	Base	Type	Digital: peer to peer
		Cable type	Copper wire 0.8 to 2.5mm <sup>2</sup> , shielded twist pair
Environment	Operation	Climatic Conditions	To IEC 721-3-3 class 3K5
		Temperature	0 - 50 °C
		Humidity	up to 95 %, RH non-condensing
	Transport	Climatic Conditions	To IEC 721-3-2 and 721-3-1, class 3K3 and 1K3
		Temperature	-25 - 70 °C
		Humidity	up to 95%, RH non-condensing
		Mechanical Conditions	Class 2M2
Standards	Conformity	EMC Directive	2004/108/EC
		Low voltage directive	2006/95/EC
		Automatic electrical control for households	EN 60730-1
		Special requirement on temperature dependant controls	EN 60730-2-9
General		Safety Class	II (IEC 60536)
		Degree of Protection	IP20 to EN 60529
		Material	PC + ABS Plastic (UL94 class V-0)
		Dimensions	57 x 147 x 115 mm

Blackbox to TLR Changeover Guide		
Existing Controller	Functionality	Replacement Solution
Blackbox 122	1 fan, 2 stage heating and cooling with reverse cycle or electric heat relay outputs	TLR-D5P-122
Blackbox 311	3 speed fan control with relay heating and cooling outputs (Relay)	TLR-D5-311R
Blackbox 311	3 speed fan control with analogue / ramped heating and cooling outputs (Analogue)	TLR-D42-311A

Visit our website for further information - [www.insightcontrol.net.au](http://www.insightcontrol.net.au)

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