VICON ACCESS CONTROL
TRANSMITTERS AND RECEIVERS

Product at a Glance

- Read ranges of up to 200 ft (61 m)
- Supports Wiegand communication protocol
- Receivers available with 2 or 4 outputs; transmitters available with 2 or 4 buttons
- Model available with integrated keypad
- IP65
- Powered by 12 VDC

Vicon's series of long range transmitter and receivers set the benchmark for high-frequency, long-range identification transmitters and receivers. Based on proven contactless digital ultra-high-frequency (UHD) technology, they interface with Vicon Access Control (VAX) system by complying with the Wiegand communication protocol. They offer value added features such as MAXSecure™, that provides increased security of data, and provide up to 200 feet of read range.

VAX transmitters are active devices, powered by the most reliable and common battery, and are equipped with a potted proximity or contactless smartcard module. The module supports a VAX proximity reader technology and allows the transmitter to be used as a close-range credential.

Refer to the table below for details on all models.

ORDERING INFORMATION

Long-Range Transmitters

Description	Model Number
LONG-RANGE TRANSMITTER; 2 buttons	VAX-LRT2
LONG-RANGE TRANSMITTER; 4 buttons	VAX-LRT4

Long-Range Receivers

Description	Model Number
LONG-RANGE RECEIVER; output transmitter data over two separate Wiegand outputs; 100 ft (30.5 m)	VAX-LRR2
LONG-RANGE RECEIVER; output transmitter data over two separate Wiegand outputs; 100 ft (30.5 m)	VAX-LRR4

VICON ACCESS CONTROL **TRANSMITTERS AND RECEIVERS**

SPECIFICATIONS
LONG-RANGE TRANSMITTERS

	VAX-LRT2	VAX-LRT4
Technology:	Long range	
Frequency:	Button press: 433 MHz; Presentation: 125 kHz or 13.56 MHz	
Read Range:	Button press: Up to 200 ft (61 m); Presentation: Up to 3.5 in. (88 mm)	
Interface:	Wiegand 26-bit industry standard	
Marking:	Date code and ID	
Button Press Transmission:	Rolling code + encryption	
LED:	Integrated red LED standard activated upon button press	
Compatibilty:	Button press: VAX-LRR4 receiver; Prresentation: VAX Readers	
Presentation Insert Interoperability:	Supports 125 kHz VAX proximity protocols (VAX Readers)	
Battery:	Single replaceable CR2012, 3.3V, lithium	
Key Ring:	Optional 1-in. (25 mm) key ring	
Convenience:	Built-in eyelet to easily carry on key ring or lanyard	
Dimensions (W x H x D):	1.45 x 2.5x 0.56 in. (37 x 63.5 x 14.2 mm)	
Weight:	0.7 oz (20 g)	
Enclosure Color:	Black polycarbonate with gray ABS keys	
Indoor/Outdoor Installation:	Electronics snap sealed in weather-resistant enclosure	
Operating Temperature:	-40° F to 122° F (-40° C to 50° C)	
Certifications:	FCC, ICC, CE, ETL listed; IP65	

LONG-RANGE RECEIVERS

	VAX-LRR2	VAX-LRR4
Technology:	Long range	
Frequency:	433 MHz	
Read Range:	Up to 100 ft (30.5 m), non-adjustable	Up to 200 ft (61 m), installable adjustable
Interface:	Wiegand 26-bit industry standard	
Marking:	Date code and ID	
Transmission:	Rolling code + encryption	
Audio Tone:	Beeper included standard, installer switchable	
LED:	External four-state standard (red, green, amber and off); Power (blue); Channel (green)	Four-state standard (red, green, amber and off), installer switchable; Power (blue); Channel (green)
Compatibilty:	Supports VAX-LRT2 and VAX-LRT4 Transmitters	
Voltage:	12 VDC	
Current Draw:	80 mA typical @ 12 VDC	120 mA typical @ 12 VDC
Cabling:	24 AWG minimum, multi-conductor stranded with an overall foil shield (ex. Belden 9540 or similar)	
Mounting:	Any flat surface	USA/European wall box or any flat surface
Convenience:	Built-in eyelet to easily carry on key ring or lanyard	
Dimensions (W x H x D):	3.3 x 3.3 x 1.9 in. (84 x 84 x 48.3 mm)	3.4 x 6.3 x 2.3 in. (86.4 x 160 x 58.4 mm)
Weight:	8 oz (227g)	12 oz (340 g)
Enclosure Color:	Off-white plastic enclosure with black label	
Indoor/Outdoor Installation:	Electronics sealed in weather-resistant UL listed enclosure	
Operating Temperature:	-40° F to 122° F (-40° C to 50° C)	
Certifications:	FCC, ICC, CE, ETL listed; IP65	

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