

Local Control Unit (LCU), Wireless

The AL-4188 series LCUs are portable, wireless hand-held units that are connected to a PCU/positioner controller via a wireless RF link. These LCUs utilize the PCU/positioner controller's basic control, limit and supply circuits. They incorporate a rotary switch for axis selection, limit indicators, and a potentiometer for speed and direction control.

- When the LCU is connected and operating in LOCAL mode, the PCU/positioner controller front panel operation is disabled.
- When the LCU is placed in REMOTE mode, the PCU/positioner controller obtains priority control.

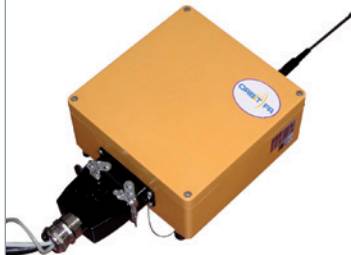
AL-4188-WRCU



AL-4188-WRCU-D



Transmitter



Applications

- General Purpose Positioning Subsystems

Product Highlights

- Sequential Control
- Wireless Control
- Light-Weight and Easy to Use

Series Overview

Model	AL-4188-WRCU	AL-4188-WRCU-12A	AL-4188-WRCU-D	AL-4188-WRCU-12A-D
Hand-held Unit	S	S	S	S
Transmitter Unit	S	S	S	S
Number of Axes	Up to 6	Up to 12	Up to 6	Up to 12
Visual Display	–	–	Built-in LCD Screen (hand-held)	Built-in LCD Screen (hand-held)

(-) N/A S Standard

Specifications - AL-4188 Series Local Control Units (LCU), Wireless

PARAMETER	POSITIONER MODEL			
	AL-4188-WRCU	AL-4188-WRCU-12A	AL-4188-WRCU-D	AL-4188-WRCU-12A-D

OPERATIONAL

Front Panel Controls & Indicators	HANDHELD UNIT: <ul style="list-style-type: none"> • Power On/Off • Communication/Synch Switch • Axis Select • Coarse/Fine Speed • Speed/Direction Control • Emergency Stop (Latching Panic Button) • Momentary Run Switch (Deadman) • FWD/REV Limit Indicators • Communication/Synch Indicator 	HANDHELD UNIT: <ul style="list-style-type: none"> • Power On/Off • Communication/Synch Switch • Axis Select • Coarse/Fine Speed • Speed/Direction Control • Emergency Stop (Latching Panic Button) • Momentary Run Switch (Deadman) • FWD/REV Limit Indicators • Communication/Synch Indicator • LCD Display
-----------------------------------	--	---

ELECTRICAL

Controlled Axes	6 sequential control	12 sequential control	6 sequential control	12 sequential control
Compatible Products	<ul style="list-style-type: none"> • AL-48062, AL-48063 • AL-4162, AL-4164 • AL-4147-2, AL-4107-2-6A 			
Frequency Range	User-Configurable <ul style="list-style-type: none"> • 400-470 MHz • 868 or 916 MHz 			
Typical Range	Approx. 330 ft (100 m) with standard receiver antenna			
FCC Certification Equipment Class	Part 15 security/remote control transmitter			
Modulation	FM - narrow band			
Bandwidth	12.5 kHz / 25 kHz			
Safety Address	20-bit			
Certificates	CE, TUV, FCC			
Environmental Protection	IP 65 (exceeds NEMA 2/13)			
Operation Time	Up to 24 hours continuous			

PHYSICAL

Dimensions	HANDHELD UNIT: <ul style="list-style-type: none"> • 6.0 in (15.2 cm) Width • 4.0 in (10.2 cm) Height • 8.0 in (20.3 cm) Length 	HANDHELD UNIT: <ul style="list-style-type: none"> • 8.0 in (20.3 cm) Width • 8.0 in (20.3 cm) Height • 10.0 in (25.4 cm) Length
	TRANSMITTER UNIT: <ul style="list-style-type: none"> • 5.3 in (13.5 cm) Width • 3.9 in (9.9 cm) Height • 6.8 in (17.3 cm) Length 	TRANSMITTER UNIT: <ul style="list-style-type: none"> • 9.4 in (23.9 cm) Width • 3.8 in (9.7 cm) Height • 6.4 in (16.3 cm) Length
Weight	HANDHELD UNIT: 3.3 lbs (1.5 kg)	
	TRANSMITTER UNIT: <ul style="list-style-type: none"> • 1.8 lbs (0.8 kg) including battery 	TRANSMITTER UNIT: <ul style="list-style-type: none"> • 3.6 lbs (1.6 kg) including battery

ENVIRONMENTAL

Operating Temperature	32° to 122° F (0° to 50° C)
Storage Temperature	- 13° to +158° F (- 25° to +70° C)
Relative Humidity	90%

Front Panel

All Models

- Power On/Off
 - Axis Select
 - Coarse/Fine Speed
 - Speed/Direction Control
 - Emergency Stop (E-Stop)
 - Momentary Run Switch (Deadman)
 - FWD/REV Limit Indicators
 - Communication/Synch Indicator
-

AL-4188-WRCU-D & AL-4188-WRCU-12A-D

- LCD Display
-

Technical Notes

- This product is rated for indoor use and limited outdoor use. Outdoor storage requires a protective enclosure
 - For applications in shielded chambers, LCU and transmitter unit should be co-located in the chamber
-

Supplied Accessories

Digital Documentation Set

- User Manual (Installation, Setup, Operation)
-

Additional Components

- Transmitter Unit
-

Options

- Opt. 101 - Additional Manual Set
-

- Standard Optional



ORDERING INFORMATION

WITH LCD DISPLAY:

- AL-4188-WRCU-D Wireless Local Control Unit (LCU), 6 Axis w/ Display
- AL-4188-WRCU-12A-D Wireless Local Control Unit (LCU), 12 Axis w/ Display

WITHOUT LCD DISPLAY:

- AL-4188-WRCU Wireless Local Control Unit (LCU), 6 Axis
- AL-4188-WRCU-12A – Wireless Local Control Unit (LCU), 12 Axis



Contact your local sales representative for more information

salesteam@mvg-world.com

www.mvg-world.com/positioners