

Delivery Program

Product Category:	Load Cells
Model:	31 Low Range Precision Miniature
Order Code(s):	AL311

USE THE CHART BELOW TO DETERMINE LEAD TIMES¹

The range or option code with the longest lead time dictates the shipping time. Categories shaded in grey are required selections. For example (reference only):

If you build this:	The order configuration is this:	The delivery class is:
AL311 + 250 g load range (AN), 60 °F to 160 °F (1a), Unamplified, mV/V output (2u), Overload stop (4a), Teflon integral cable (6e), and radially electrical exit (15c)	AL311 – AN – 1a – 2u – 4a – 6e – 15c	Quick ship, ships in 1 to 5 days
AL311 +250 g load range (AN), 60 °F to 160 °F (1a), Unamplified, mV/V output (2u), Overload stop (4a), Phoenix connect on end of cable (6v), and radially electrical exit (15c)	AL311 – AN – 1a – 2u – 4a – 6v – 15c	Fast-track manufacture, ships within 4 weeks
AL311 +500 g (AP), 30 °F to 130 °F (1b), Unamplified, mV/V output (2u), Overload stop (4a), PVC integral cable (6f), and radially electrical exit (15c)	AL311 – AP – 1b – 2u – 4a – 6f – 15c	Build-to-order, call Honeywell for lead time

	Quick-ship (Ships in 1-5 days)	Fast track manufacture (Ships within 4 weeks)	Build-to-order (Call Honeywell 1-800-848-6564 or +1 614-850-5000)
Load range (gms)	250 g (AN)	50 g (AJ), 150 g (AL)	500 g (AP)
Temperature compensation	1a. 60 °F to 160 °F *	1b. 30 °F to 130 °F 1c. 0 °F to 185 °F 1d. -20 °F to 130 °F 1e. -20 °F to 200 °F 1j. 0 °F to 50 °C 1k. -20 °C to 85 °C 1m. -25 °C to 110 °C	
Internal amplifiers	2u. Unamplified, mV/V output *		
Overload stops	4a. Overload stop *		
Electrical termination	6e. Integral cable Teflon *	6v. Phoenix connector on end of cable	6d. Microtec DR-4S-4H 4-pin 6f. Integral cable: PVC 6h. Integral cable: Silicone 6i. Integral underwater cable (max. 82 °C [180 °F])
Electrical termination orientation	15c. Radially electrical exit *		15d. Connector on end of cable
Special calibration		30a. Compression only calibration, positive in compression 30b. Tension and compression calibration, positive in tension 30c. Compression only calibration, negative in compression	
Shock and vibration			44a. Shock and vibration resistance
Interfaces		53e. Signature calibration (inline module only) 53t. TEDS IEEE 1451.4 module (external only)	

(continued)

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* *Default options.*

Note: Before selecting option/s, please refer to the Test and Measurement catalog or product data sheet for special application notes and compatibility. A catalog can be ordered on-line at <https://home.honeywell-online.com/newTMcatalog>. Product data sheets are available on Honeywell's web site at <http://content.honeywell.com/sensing/sensotec/catpages.asp>.

Delivery Program

Product Category:	Load Cells
Model:	31 Mid-Range Precision Miniature
Order Code(s):	AL311

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The range or option code with the longest lead time dictates the shipping time. Categories shaded in grey are required selections. For example (reference only):

If you build this:	The order configuration is this:	The delivery class is:
AL311 + 250 lb load range (CN), 60 °F to 160 °F (1a), Unamplified, mV/V output (2u), Teflon integral cable (6e), and radially electrical exit (15c)	AL311 – CN – 1a – 2u – 6e – 15c	Quick ship, ships in 1 to 5 days
AL311 + 250 lb load range (CN), 0 °F to 185 °F (1c), Unamplified, mV/V output (2u), Phoenix connect on end of cable (6v), and radially electrical exit (15c)	AL311 – CN – 1c – 2u – 6v – 15c	Fast-track manufacture, ships within 4 weeks
AL311 + 250 lb load range (CN), 30 °F to 130 °F (1b), Unamplified, mV/V output (2u), Overload stop (4a), PVC integral cable (6f), and radially electrical exit (15c)	AL311 – CN – 1b – 2u – 4a – 6f – 15c	Build-to-order, call Honeywell for lead time

	Quick-ship (Ships in 1-5 days)	Fast track manufacture (Ships within 4 weeks)	Build-to-order (Call Honeywell 1-800-848-6564 or +1 614-850-5000)
Load range	1000 g (AR), 5 lb (AT), 10 lb (AV), 25 lb (BL), 50 lb (BN), 100 lb (BR), 250 lb (CN), 500 lb (CR), 1000 lb (CV)		
Temperature compensation	1a. 60 °F to 160 °F *	1b. 30 °F to 130 °F 1c. 0 °F to 185 °F 1d. -20 °F to 130 °F 1e. -20 °F to 200 °F 1f. 70 °F to 250 °F	1i. -65 °F to 250 °F 1j. 0 °C to 50 °C 1k. -20 °C to 85 °C 1m. -25 ° to 110 °C
Internal amplifiers	2u. Unamplified, mV/V Output *		
Electrical termination	5 ft integral cable with balance board (for ranges of 1000g thru 10 lbs) * 6e. Integral cable Teflon (for ranges of 25 thru 1000 lbs)*	6v. Phoenix connector on end of cable	6a. Bendix PTIH-10-6P-6 pin(max 250 °F) 6d. Microtec DR-4S-4H 4 pin 6f. Integral cable: PVC 6h. Integral cable: Silicone 6i. Integral underwater cable(max 180 °F)
Electrical term. orientation	15c. Radially electrically exit *		15d. Connector on end of cable
Overload stops			4a. Overload stops (ranges 500 lbs max)
Special calibration		9a. 10 point (5 up/5 down) 20 % increments @ 20 °C 9b. 20 point (10 up/10 down) 10 % increments @ 20 °C	
Special calibration		30a. Compression only calibration, positive in compression 30b. Tension and compression calibration, positive in tension 30c. Compression only calibration, negative in compression	
Shock and vibration			44a. Shock and vibration resistance
Interfaces		53e. Signature calibration (inline module only) 53t. TEDS IEEE 1451.4 module (external only)	

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Delivery Program

Product Category:	Load Cells
Model:	31 High Range Precision Miniature
Order Code(s):	AL311

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If you build this:	The order configuration is this:	The delivery class is:
AL311 + 2000 lb load range (DL) , 60 °F to 160 °F (1a), Unamplified, mV/V output (2u), Phoenix connect on end of cable (6v), and radially electrical exit (15c)	AL311 – DL – 1a – 2u – 6v – 15c	Fast-track manufacture, ships within 4 weeks
AL311 + 3000 lb (DN) , 30 °F to 130 °F (1b), Unamplified, mV/V output (2u), PVC integral cable (6f), and radially electrical exit (15c)	AL311 – DN – 1b – 2u – 6f – 15c	Build-to-order, call Honeywell for lead time

	Quick-ship (Ships in 1-5 days)	Fast track manufacture (Ships within 4 weeks)	Build-to-order (Call Honeywell 1-800-848-6564 or +1 614-850-5000)
Load range		2000 lb (DL), 5000 lb (DR), 10000 lb (DV)	3000 lb (DN), 4000 lb (DP), 7500 lb (DT)
Temperature compensation		1a. 60 °F to 160 °F * 1f. 70 °F to 250 °F 1b. 30 °F to 130 °F 1i. -65 °F to 250 °F 1c. 0 °F to 185 °F 1j. 0 °C to 50 °C 1d. -20 °F to 130 °F 1k. -20 °C to 85 °C 1e. -20 °F to 200 °F 1m. -25 °C to 110 °C	1g. 70 °F to 325 °F 1h. 70 °F to 400 °F
Internal amplifiers		2u. Unamplified, mV/V output *	
Electrical termination		6e. Integral cable: Teflon * 6i. Integral underwater cable (max. 180 °F) 6v. Phoenix connector on end of cable	6d. Microtec DR-4S-4H 4 pin 6f. Integral cable: PVC 6g. Integral cable: Neoprene (max. 180 °F) 6h. Integral cable: Silicone
Bridge resistance			12a. 1000 ohm (foil) 12b. 5000 ohm (foil)
Electrical connector orientation		15c. Radial electrical exit port orientation *	15a. Horizontal electrical exit port orientation 15b. Vertical electrical exit port orientation 15d. Connector on end of cable
Special calibration		30a. Compression only calibration, positive in compression 30b. Tension and compression calibration, positive in tension 30c. Compression only calibration, negative in compression 30d. Tension and compression calibration, positive in compression	
Shock and vibration			44a. Shock and vibration resistance
Interfaces		53e. Signature calibration (inline module only) 53t. TEDS IEEE 1451.4 module (external only)	

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