



# AL205E

## ALERT2 Encoder



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Acquire and transmit encrypted hydrometeorological measurements

### Overview

The AL205E is a low-power ALERT2 encoder/transmitter with one radio output port for data transmission (TX only). With its two serial ports, input from several devices is possible—including from a data logger. Connection to a data logger enables the acquisition and transmission of hydrometeorological measurements. Local administration is possible through the micro USB console. The GPS functionality

provides the required time synchronization needed for TDMA transmissions, and the LEDs offer status and activity indications. The AL205E is firmware-upgradeable.

**Note:** ALERT2 is a trademark of the National Hydrologic Warning Council.

### Benefits and Features

- › ALERT2 flood warning network compatible
- › Forward error correction (FEC)
- › 250 ms TDMA slotting
- › Low power
- › Selectable modulation output power levels
- › Works easily with Maxon and Ritron radios
- › Meets published ALERT2 Working Group Standards

### Specifications

<p>Operating Temperature Range</p> <p>Power Connector</p> <p>Power Supply</p> <p>Current Drain at 12 Vdc</p>	<p>-40° to +80°C</p> <p>2 pin, spring clip</p> <p>9 to 17 Vdc (reverse polarity protected)</p> <p>› ~29 mA (GPS locked) › ~1 mA each LED (disabled via jumper)</p>	<p>› ~1.5 mA (each connected serial port)</p> <p>› ~17 mA (during message transmission)</p> <p>› 1.4 mA (normal operation, no LEDs, no external connections)</p> <p>› ~34 mA (GPS searching)</p>
		<p>TX Radio Modulation Voltage</p> <p>› 2 preconfigured values, selected via jumper (for use with Ritron or Maxon radios)</p>

	<ul style="list-style-type: none"> <li>› User-adjustable level via potentiometer</li> </ul>
Clock Synchronization	GPS
Clock Drift	<ul style="list-style-type: none"> <li>› 3.5 ppm (-40 to +80°C)</li> <li>› 2 ppm (0 to 40°C)</li> </ul>
RS-232	<ul style="list-style-type: none"> <li>› 1200 to 57,600 bps</li> <li>› Custom 3-pin cable</li> <li>› 2 ports</li> </ul>

LEDs	5 status LEDs for Serial 2, Serial 1, GPS On, Clock Sync, Transmit, TX Radio On
Active GPS Antenna	SMA, female
TX Radio	5 pin, spring clip (power, ground, push-to-talk, data, channel select)
Certifications	FCC Part 15 Class A certified
Dimensions	19.05 x 10.16 x 3.18 cm (7.5 x 4 x 1.25 in.)
Weight	600 g (1.3 lb)

For comprehensive details, visit: [www.campbellsci.com/al205e](http://www.campbellsci.com/al205e) 



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | [www.campbellsci.com](http://www.campbellsci.com)  
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