



environmental

Flood Warning

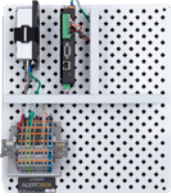
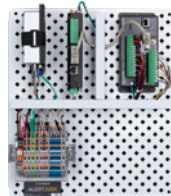
ALERT AND ALERT2 SYSTEMS



Flood Warning (ALERT/ALERT2) Real-Time Monitoring and Control Systems

Campbell Scientific designs and manufactures standards-based ALERT and ALERT2 flood-warning systems proven for reliable, long-term use in harsh and remote environments. Our turn-key field stations are available in a traditional ALERT-style canister for standpipe installation, a dedicated enclosure, or a back-panel configuration for integration into an existing enclosure—making it easy to design a new network or add to an existing system.

Each configuration is offered in both the base ALERT200X and advanced ALERT205X models. The ALERT200X is built around the AL200X operating in field station mode, while the ALERT205X uses the AL200X in Intelligent Network Device (IND) mode connected to a CR310 datalogger for added measurement flexibility and an advanced web browser user interface.

Product	ALERT200X			ALERT205X		
Form Factor	 Canister	 Enclosure	 Panel	 Canister	 Enclosure	 Panel
ALERT Transmitter	✓			x		
ALERT2 Transmitter	✓			✓		
GPS Connector for RTC	✓			✓		
Ethernet, Cell, Wi-Fi Options	x			✓		
Analog Input	1 SE			6 SE and 2 excitation on 4 connectors	6 SE and 2 excitation	6 SE and 2 excitation
Digital	1 pulse, 3 C channels (SDI-12, Digital I/O)			1 pulse connector and 2 SDI-12 on 1 connector	1 pulse, 2 SDI-12	1 pulse, 2 SDI-12
Switched 12 Vdc	2			1		
Sensor Input Interface	6 x M12 eight-pin connectors	Cable glands into enclosure/DIN rail terminals on panel	DIN rail terminals on panel	6 x M12 eight-pin connectors	Cable glands into enclosure/DIN rail terminals on panel	DIN rail terminals on panel
User Interface	DevConfig for AL200X			Web browser for CR310		



Choosing the Right System

ALERT200X

- I need a cost-effective flood warning station that still delivers strong sensor I/O and data logging capability.
- I need support for legacy ALERT with an upgrade path to ALERT2 in my existing or evolving network.
- I want a dependable, turn-key solution for my standard ALERT2 field station to expand my system.

ALERT205X

- I need expanded analog sensor support and excitation for devices such as analog R. M. Young anemometers or temperature/RH sensors.
- I want more communications options including cellular, Wi-Fi, and Ethernet for easier local and remote access.
- I want an advanced web-based interface that makes configuration, diagnostics, and maintenance simpler.

ALERT to ALERT2 Management and Upgrade Path

Our ALERT200X and ALERT205X field stations provide an ideal upgrade path from legacy ALERT to ALERT2, helping agencies modernize their flood warning networks without losing sight of current operational needs. For customers who must continue supporting existing legacy ALERT infrastructure while planning for future ALERT2 deployment, the ALERT200X offers valuable flexibility with support for both protocols. For customers ready to move forward with a more advanced ALERT2-focused platform, the ALERT205X adds expanded sensor support, enhanced communications, and a modern web-based interface. Together, these systems allow organizations to upgrade at a pace that fits their budget, network strategy, and field requirements while building toward a more capable and sustainable ALERT2 network.

Flood Warning Solutions

Campbell Scientific can help design and build hardware packages that meet your exact needs. Any of our standard systems can be modified to take advantage of other forms of telemetry and use various communications protocols. Other common forms of telemetry are:

- Digital VHF/UHF Radios
- License-Free 900 MHz Radios
- Satellite (GOES, BGAN, OrbComm, Iridium)
- Cellular
- Ethernet/Wi-Fi

Additionally, our data loggers support a variety of communications protocols, such as:

- ALERT/ALERT2
- Modbus
- PakBus
- DNP3
- TCP/IP
- SDI-12

With such a large variety of telemetry options and communications protocols to choose from, we can help you develop a solution that fits your budget and meets your needs.



ALERT and ALERT2 Software

Campbell Scientific provides ALERT2 Administrator (ALERT2ADM) base station software for the easy ingestion of ALERT concentration and ALERT2 data in real time into the LoggerNet ecosystem (or suite) of products. Users can easily store data for historical use, display data, and send alerts using RTMC projects and CSIWEBS. ALERT concentration and ALERT2 data can



also be stored in Microsoft SQL, MySQL, or SQL Server Compact with LoggerNet Database (LNDB) for simple integration with other systems. This allows for effective and timely decision-making by those who need to make decisions—when they need to.

Benefits and Features

- Cost-effective ALERT concentration and ALERT2 base station software
- Historical and real-time data for diagnostics and alerting
- Familiarity by building on LoggerNet software
- Simple to set up and use
- Ability to make variable-level adjustments using formulas, etc.
- Troubleshooting and QA/QC enhanced with raw ALERT and ALERT2 data

Other Resources and Options

To meet customer needs, other resources and communications options can be combined with flood warning systems. Commonly, local governments will combine resources to obtain the best possible system. In other situations, federal agencies can be involved to increase system coverage and robustness, and even help with the budget. For example, satellite transmitters can be added to stations to provide automated data archival through the National Weather Service (NOAA/NESDIS) and the US Geological Survey. Multiple purpose data collection systems bring to bear the resources and expertise of environmental data experts.



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