IntelliPEAK® 700

The IntelliPEAK 700 load control switch offers superior radio frequency signal reliability and reach, individual and group addressing, and fail-safe operation.

IntelliPEAK 700 is a highly reliable load control switch designed for electric utilities running demand response programs. Combining multiple relay outputs and a robust set of control strategies, a single device can control multiple appliances, including HVAC units, electric water heaters or pumps. With millions of IntelliPEAK 700 units deployed successfully in the field, it is one of the most proven load control switches on the market today.

Using linear control and distributed intelligence, IntelliPEAK 700 can be controlled for up to eight hours from a single radio message. The switch enables intelligent adaptive cycling, which learns the operation of the HVAC and adjusts the control to provide greater load reduction while maximizing customer comfort. Efficient hierarchical addressing allows utilities to target all devices or a group of devices at once.
FEATURES
» Up to four relay outputs to control HVAC, strip heaters, hot water heaters, pool pumps and other appliances
» Superior sensitivity and selectivity in VHF paging receiver
» Flexible group addressing to control single or multiple devices
  • Hierarchical group addressing
  • Four million individual addresses
» Fail-safe single command to set control duration and strategy
» Adaptive cycling minimizing free-ridership with oversized HVAC
» Cold load pickup to prevent spikes during restoration of service
» LED to indicate control operation
» Diagnostic counters for troubleshooting
» Water-tight seal enclosure; optional integrated junction box
» Enclosure types: Single conduit nipple, integrated junction box, water-tight

KEY SPECIFICATIONS
» Physical dimensions: 11.0” (28 cm) H X 7.5” (18.5 cm) W X 3.0” (7.5 cm) D
» Injection molded, high-impact polycarbonate packaging
» Operating environment: -30°C to +60°C and in humidity at 0% to 95% (non-condensing)
» Electrical input: 24, 120, 240, 120/240, 120/208/240, 240/480 VAC +/-15%
» Power consumption: Less than 10 VA
» Frequency range: 139 MHz to 174 MHz (single or dual frequencies available)
» Sensitivity: 20 uV/m (internal antenna)
» Selectivity: Greater than 40 dB
» Supported protocols: POCSAG, SA-205, SA-305
» Relay rating/cycles: 5A/120 VAC, 30A/240 VAC