

SUPERtrol II (ST2) Family of Flow Computers for Energy Metering of Steam and Heated/Chilled Water

Several Engineering Specials (ES) are available for the SUPERtrol II flow computer designed specifically for utility metering. These special versions of the ST2 are equipped with advanced features and options customized for specific applications of steam and heated/chilled water metering.



ES749 - Utility Metering Flow Computer

The Model ES749 has become the work horse of flow computers for utility metering, solving a wide variety of flow metering challenges. Based on the popular SUPERtrol II, the ES749 accepts common pulse and analog inputs from nearly all of the flow meters commonly encountered in utility metering of steam, heated and chilled water, industrial gases, and liquid flow applications. Two compensation inputs are provided to facilitate the handling of a wide range of standard applications in a single unit. Energy, mass, volume and corrected volume equations can be solved, and a variety of standard outputs, the internal data-logger, and communication options round out the offering.

ES759 - Designed for Metering Combined Heating/Cooling Systems

Providing many of the same functions as the ES749, the Model ES759 is designed for more specialized applications in combined heating/cooling systems, where the same system is seasonally used for heating during part of the year and cooling during other periods. Separate totalizers are provided for heating and cooling.

ES761 - Designed for Net Energy Applications using Multi-Variable Transmitters

The Model ES761 is intended for more specialized applications involving multi-variable transmitters, in applications where there is a need to compensate saturated steam by temperature or pressure while also computing the net energy between the saturated steam into a system, minus the energy returned in the condensate.

ES762 - Energy Metering with Additional Analog Inputs & Totalizers

The Model ES762 is intended for applications requiring additional analog inputs from the system or customer site, as well as additional totalizers, while still performing steam or heated or chilled water computation as the primary requirement. In a distribution system, the two extra analog inputs can be used to acquire data on secondary temperatures, pressures, or differential pressures unrelated to the primary computation. The four auxiliary totalizers can be used for a wide variety of basic applications such as remote acquisition of hot water meters, cold water meters, condensate, natural gas, electric kWh usage, etc. This information can be read locally, data logged, and/or accessed over the available communication channel(s).