

Section 1 Introduction

Keco Engineered Controls
1200 River Avenue, Bldg. 3A
Lakewood, NJ 08701
ph. 732 901-5900
e-mail: keco@optonline.net

1.1 System description

The 8700M Magnetic Flowmeter Platform consists of a sensor and a transmitter. The sensor is installed in-line with the process piping; the transmitter can be remotely mounted or integrally mounted to the sensor.

Figure 1-1. Field Mount Transmitters



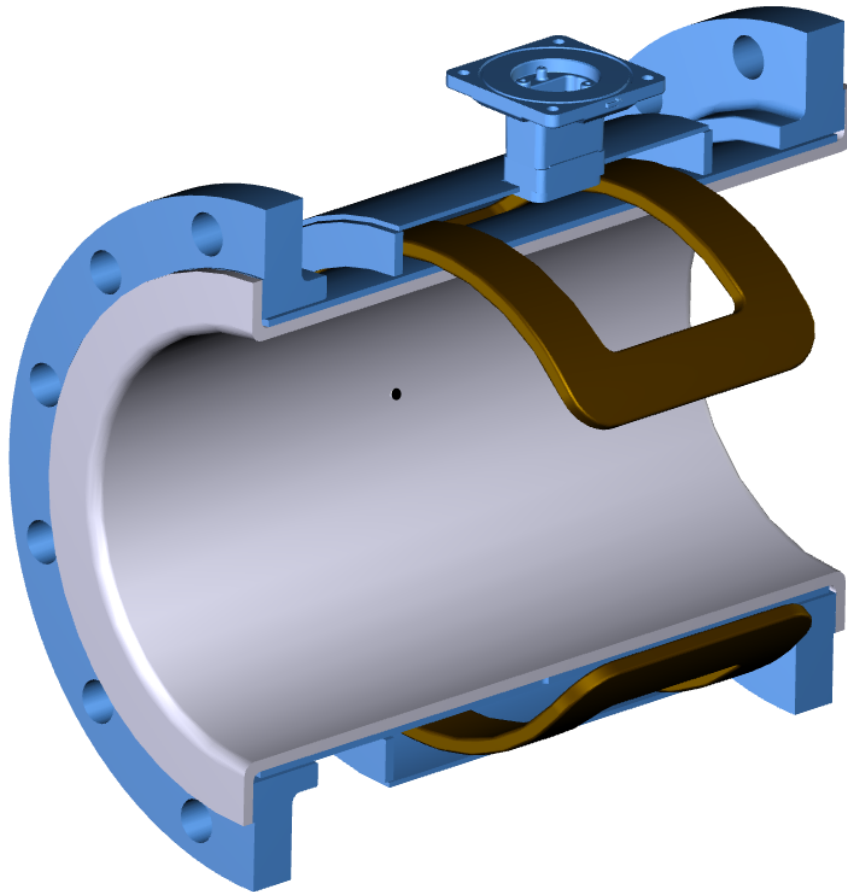
There are three Rosemount® flow sensors available.⁽¹⁾ See Figure 1-2.

Figure 1-2. Flow Sensors



1. Also available for use with 8707 High Signal sensor with dual calibration (option code D2).

Figure 1-3. 8705 Cross Section



The flow sensor contains two magnetic coils located on opposite sides of the sensor. Two electrodes, located perpendicular to the coils and opposite each other, make contact with the liquid. The transmitter energizes the coils and creates a magnetic field. A conductive liquid moving through the magnetic field generates an induced voltage at the electrodes. This voltage is proportional to the flow velocity. The transmitter converts the voltage detected by the electrodes into a flow reading.

1.2 Product recycling/disposal

Recycling of equipment and packaging should be taken into consideration and disposed of in accordance with local and national legislation/regulations.