KTLDE Intelligent Electromagnetic Flowmeter Main Features

- Electromagnetic flowmeter is to measure volumetric flowrate. Measuring flowrate is not affected by density, viscosity, temperature, pressure and conductivity of fluid. Induced voltage signal of transducer is linear with average flow velocity, measuring accuracy is high.

- Electromagnetic flowmeter has no mechanical inertia. Reaction is sensitive. Instantaneous pulse flow can be measured, and moreover, linearity is good. Therefore, measuring signal can be linearly converted to standard signal output directly by the converter.

- Since induced voltage signal forms in the whole space full of magnetic field and is average value in the cross-section of the pipe, transducer needs relatively short straight length, generally 5D upstream and 3D downstream.

- Only the liner and electrode touch the measured liquid, so as long as electrode and liner material are selected properly, corrosion resistance and abrasive resistance can be realized to ensure long-term use.

- Advanced MCU and SMT used in converter to make it has reliable performance, high accuracy, low power consumption, stable zero point, easy parameter setting, dot-matrix LCD display for total flow, velocity, flowrate percentage, etc.

- Large diameter adopts six electrodes structure, accuracy is high. Above DN450 adopts two pairs of measuring electrodes and a pair of grounding electrodes, so grounding ring is not required at any time. In June 2007, State Intellectual Property Office of the People's Republic of China awarded patent certificate of six electrodes electromagnetic flowmeter to Shanghai Kent according to national patent law.

- Take the lead in adopting grounding electrode structure to form the balanced electrode surface, which could ensure the entire measurement goes on within the balanced electrode surface, eliminate disturbance of electrical noise and provide accurate measuring result. Besides, the biggest advantage of grounding electrode is that grounding can be reliably guaranteed for a long time to ensure measuring accuracy, because general pipe aging and rusting cannot guarantee transducer grounding.

- Excitation with low frequency rectangular wave, improves measuring stability and reduces power consumption and shows superior characteristics of low flow velocity.

- Bidirectional measurement system can measure forward flow and reverse flow. Shanghai Kent adopts special manufacturing technique and quality materials to ensure stable performance for a long time. Products are widely applied in water industry (tap water, industrial water and sewage disposal), metallurgy, chemical industry, textile, papermaking, electric power, pharmacy, food industry, etc.