Ultrasonic Sensing For Water Flow Meters And Heat Meters

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Ultrasonic Sensing For Water Flow

Ultrasonic Sensing for Water Flow Meters and Heat Meters
Ultrasonic Sensing for Water Flow Meters and Heat Meters BahramMirshab ABSTRACT Ultrasonic flow meters are gaining wide usage in commercial, industrial and medical applications Major benefits of utilizing this type of flowmeter are higher accuracy, low maintenance (no moving parts), non-

Waveform capture based ultrasonic sensing water flow ...
Waveform capture based ultrasonic sensing water flow metering technology 11 Water Flow Velocity Estimation There are two methods to solve Equation 1 and Equation 2 One method can be used when the velocity of ultrasound in water is known (see Section 111), and …

Ultrasonic Sensors for Flow Metering - CeramTec
Flow Sensors for Ultrasonic Metering CeramTec presents its ultrasonic flow sensors, ideal for use in ultrasonic metering of gas, water and sub-metering applications Designed using our world class piezoelectric materials and expertise in transducer design and manu-

Interfacing a Water Flow-Meter Sensor to TDC1000 and ...
This article is intended as an introduction to ultrasonic flow sensing and describes a demonstration setup to measure velocity of flow in a pipe using an ultrasonic water flow-meter sensor, the TDC1000 ultrasonic analog-front-end (UAFE), and TDC7200 precision time interval timer Contents

Flow Meters for Industrial Applications using Ultrasonic ...
• The Ultrasonic Sensing Design Center (DC) GUI provides an Out of Box Experience – Easy and quick to get started with EVM430-FR6047 – Communicates with Application SW and MSP430FR6047 Ultrasonic Sensing Library – Customer can configure to their flow meter transducer – Can

immediately start experimental water flow measurements

Ultrasonic Sensors for Gas Flow Mureasement

These new Ultrasonic Sensors for Gas Flow Measurement are intended to transmit and receive ultrasonic waves across a gas channel for time of flight measurement of gas flow Using 2 of these transducers, in applications such as Smart Metering of natural gas, can provide flow information in 1, 2 or 3 dimensions or air-coupled level sensing of

Industrial Ultrasonic Flow Meter Solutions

FLOW METER SOLUTIONS Industrial Ultrasonic Flow Meter System Theory Ultrasonic flow meters are volumetric flow meters that are used to measure the flow rate of liquids, gases, or steam They are commonly found in oil and gas, pharmaceutical, and food and beverage industries Flow meters use time of flight or doppler techniques to measure flow rate

Application Note GE Panametrics Ultrasonic Flow Meter

R Application Note GE Panametrics Ultrasonic Flow Meter Figure 1: Flow meter installed in the field Part I Configuring the PT878 Transport Ultrasonic Flow Meter Overview The PT878 TransPort Ultrasonic Flow Meter: ä Measures liquid flow in a pipe ä Is a non-intrusive, clamp-on ultrasonic liquid flow meter for chilled

PRINCIPLES OF OPERATION FOR ULTRASONIC GAS FLOW ...

PRINCIPLES OF OPERATION FOR ULTRASONIC GAS FLOW METERS John Lansing Daniel Measurement and Control, Inc 9270 Old Katy Rd, Houston, Texas 77055 ABSTRACT This paper discusses fundamental issues relative to ultrasonic gas flow meters used for measurement of natural gas A basic review of an ultrasonic meter's operation is presented to

GE Panametrics Ultrasonic Flow Meter - Pacific Gas and ...

GE Panametrics Ultrasonic Flow Meter Part II Transducer Installation 3 The transducers can be installed on a horizontal run of pipe or a vertical run of pipe with flow going up Avoid installing transducers on a vertical run of pipe with flow going down unless it …

Sensing - Veronics

The XMT868 liquid flow transmitter is a complete ultrasonic flow metering system for measurement of: • Hydrocarbon liquids • Petroleum products • Crude oil • Lubricating oils • Diesel fuel oils • Solvents •Water and wastewater • Hot/chilled water • Chemicals • Beverages • Other liquids Features • …

FUNDAMENTALS OF ULTRASONIC FLOW METERS

FUNDAMENTALS OF ULTRASONIC FLOW METERS Keven Conrad and Larry Lynnworth Panametrics, Inc 7255 Langtry, Houston, TX 77040-6626 and 221 Crescent Street, Waltham, MA 02453-3497 in ordinary water) The other significant factor that becomes important in mass flow metering simple derivation of the basic flow-sensing equation is

Panametrics Portable Liquid Ultrasonic

Liquid Ultrasonic Flowmeter Applications The TransPort PT878 portable liquid flowmeter is a complete portable ultrasonic flow metering system for measurement of: •Potable water •Wastewater •Cooling and heating water •Ultrapure water and liquids •Water/glycol solutions •Crude oil •Refined hydrocarbons •Diesel and fuel oils

DigitalFlow XMT868i

Panametrics Liquid Flow Ultrasonic Transmitter The DigitalFlow XMT868i liquid fl ow transmitter is a complete ultrasonic fl ow metering system for

measurement of: Applications • Hydrocarbon liquids • Liquefi ed natural gas (LNG) • Crude oil • Lubricating oils • Diesel fuel oils • Solvents • Water and wastewater • Hot/chilled

Article - Ultrasonic technology for level measurement in

Rosemount 3108 Ultrasonic Level Transmitter used to measure flow in open channel applications March April 2016 48 Water & Wastewater Asia Ultrasonic Technology for Level Measurement in Water Processing Applications Vijay Vidyasagar at Emerson Process Management explains how ultrasonic measurement technologies can provide accurate

Clamp-on Ultrasonic Flow Meter Catalog Sheet

times of ultrasonic sound waves travelling between two transducers, the flow velocity and direction are accurately determined DESCRIPTION ONICON F-4400 Portable Clamp-on Ultrasonic Flow Meter is the ideal tool for testing and validating flow The battery operated portable meter utilizes clamp-on transducers to measure flow through the pipe

Panametrics DigitalFlow DF868 Liquid Ultrasonic Flowmeter

Sensing & Inspection Technologies DigitalFlow™ DF868 Panametrics Liquid Ultrasonic Flowmeter Applications The DF868 liquid flowmeter is a complete ultrasonic flow metering system for measurement of: • Water and wastewater • Hot/chilled water • Water/glycol solutions • Refined hydrocarbons • Petroleum products • Crude oil

Flow Meter Reference Design - NXP Semiconductors

The main attraction of this design is that the flow sensing module of the MCU keeps running even when the MCU goes into low-power mode Since the MCU is in low-power mode for most of the time, it reduces the power consumption Figure 1-1 Block diagram Flow Meter Reference Design, Rev 0, 12/2012 Freescale Semiconductor, Inc 5

F-4300 with MODBUS TCP/IP Clamp-on Ultrasonic Flow ...

the flow velocity and direction are accurately determined 13 TYPICAL F-4300 FLOW METER The F-4300 Ultrasonic Flow Meter utilizes clamp-on signal transducers that mount on the outside wall of the pipe It is suitable for measuring the volumetric flow of liquids in a wide variety of applications including bi-directional flow applications