

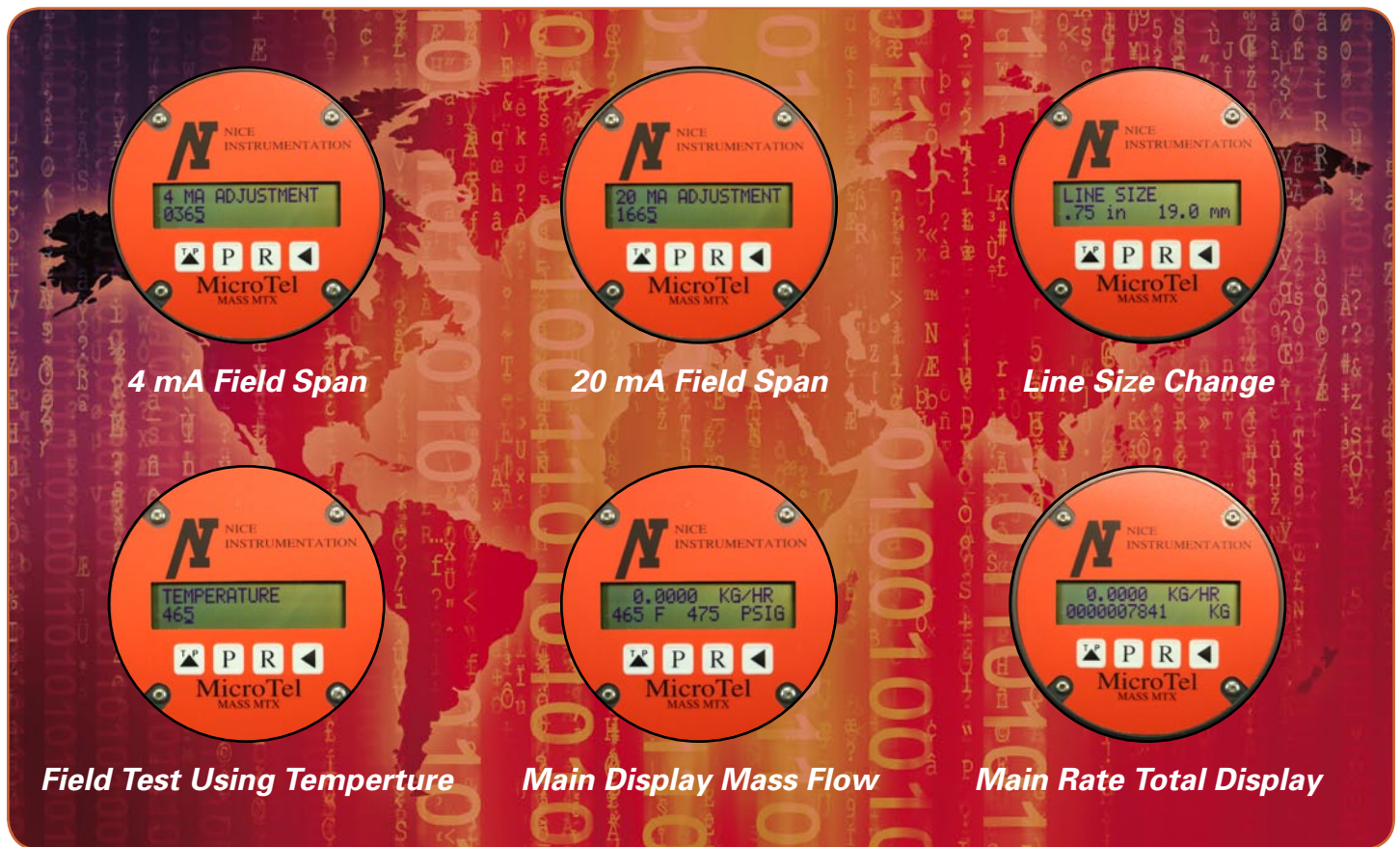


# MicroTel MASS MTX

Accuracy • Reliability • Standardization • Integration



# The Latest in Multi Variable Flow Technology



*In Field 4-20mA Span Adjustment*

*One Touch Line Size Adjustments*

*Multi-Display Output for Compensated Flow Rate and Total,  
Temperature and Pressure*

*Six Digits Security with Variable Password Settings for Custody Transfer Applications*

## *The New Microtel MASS MTX Is Designed To Create a Trouble Free Flow Application*

- In Field Time Base Adjustment
- In Field Engineering Units Adjustment
- Auto Flow Rate Tracking
- Auto Signal Dampening
- 24 Bit Analog to Digital Technology
- Six Digits with Floating Decimal Flow Rate
- Ten Digit Totalized Value, Showing EVERY Count of Accumulated Flow
- Low Power, Loop-Powered Multi Variable System
- High-Level Noise Filtering for All Process Conditions.
- English and Metric

*Where Flow Measurement Meets Innovation*

# The Perfect Solution for MASS Flow Applications

The Microtel MASS MTX is the latest design in Mass Flow Computing and is a paragon within the industry for complete mass flow computation. The Microtel MASS MTX is loaded with feature-rich innovations that will take the headache out of multivariable flow instrumentation.

Field adjustable 4-20ma span, auto tracking and auto dampening are just a few of the latest mass flow innovations from Nice Instrumentation. Our Microtel MASS MTX uses the latest 24 bit analog to digital technology with high performance microprocessors.

The Microtel MASS MTX operating software will track instantaneous flow rate while adjusting the auto dampening. This software has the ability to record and track the most violent swings in flow rate while providing the end user with a steady flow rate they can rely on during operations.

The Microtel MASS MTX was designed from the ground up with the field technician and end user in mind. The field technician now has many choices not available with other multivariable instruments. One of the latest innovations is our "in field 4-20ma span adjustment". This function, found in all standard Microtel electronics, allows the field technician to adjust the 4ma and 20ma signal from the keypad and zero out any anomalies found between the meter and the monitoring device.

The Microtel MASS MTX makes it simple to change line sizes when using any one of our vortex insertion designs. Our full line of vortex insertion designs can be used in line sizes .75 to 48 inches in diameter. If there is ever a need to move the meter to a new line size, all the technician needs to do is to increment the line size to a smaller or larger number by using the keypad. This will auto adjust all calibration factors within the Microtel electronics for the new line size. There is no need to adjust the scaling factor or other internal parameters, and with our unique vortex insertion designs, the meter can simply be inserted into the new line size without any changes to the meter body or sensors.

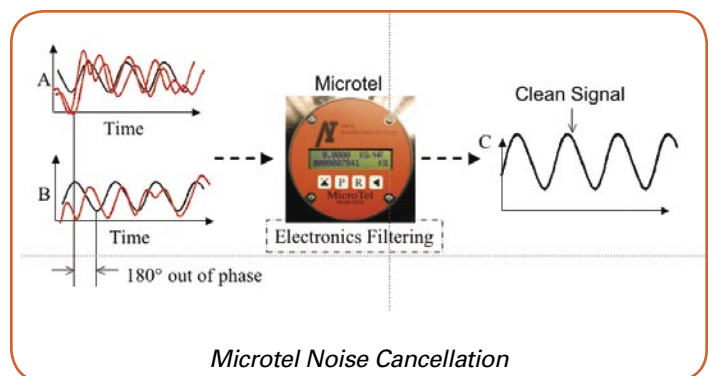
The MASS MTX has been designed for ACCURACY. The NEW Microtel Mass MTX and SMART TX displays rate in six digits with a floating decimal. Our rate indication is designed for high resolution by showing up to four decimals when measuring small flow rates. The totalized flow rate has the ability to display up to ten digits and counts EVERY unit to show all counts of accumulated flow. Regardless of how high the flow rates, the Microtel will never miss a count and will show the full total. Other manufacturer's displays total in units of 10, 100, or 1000 losing valuable data.

Power consumption is always a consideration when installing new flow equipment. Nice Instrumentation is proud to introduce one of the first low powered, two wire, mass flow meters. The Microtel MASS MTX can operate in a loop powered system requiring only 14 – 36 VDC to operate thereby making it simple to incorporate the Microtel MASS MTX into any system.

The Microtel MASS MTX allows the technician to adjust the time base from seconds, minutes, hours, and even days. Once the technician makes this change, the flow rate will adjust and display the new rate per the new time base.

The MASS MTX also allows for instantaneous flow unit changes via the keypad. If for any reason the technician wanted engineering units changed from liters to gallons or pounds to kilograms etc, all that is required is to select the new engineering unit. The Microtel will recalibrate the rate and adjust the total to represent the new units.

The Microtel MASS MTX also has the latest in noise cancellation technology. Noise coming from the process flow line is everywhere. Noise from valves, motors, pumps, pressure reducing stations and even from the process fluid itself is a part of any process system. The latest software for the Microtel is designed to filter out all unwanted noise and has the ability to measure a clean and clear vortex signal even when the noise is 200 times greater in amplitude than the vortex signals.



*Where Flow Measurement Meets Innovation*



# Available for All Innovative, Heavy Duty Vortex Designs



**FVP**



**VP**



**LPIV**



**HTIV**

## Performance Specifications

Process Fluid	Steam, Gas and Liquid
Accuracy In-line	±.5% of reading
Accuracy Insertion	±1% of reading
Repeatability	±.25% of reading
Max Operating Pressure	1,000 PSIG (over 1,000 special order)
Max Operating Temperature	600 deg F



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