

# Smart Phone

## Ultrasonic Flow meter

### communicate with your Mobile Device

*Set up is simple and intuitive, requiring only the Flow Meter and a Smart Phone companion. No cables are required, as communication between the Flow Meter and Smart Phone is handled wirelessly via Bluetooth.*

*Begin by downloading the app to your mobile device, available free through either the Google Play or iTunes App Store. You are now ready to program and monitor data, such as your GPM Flow Rate or Totals, all right from your Smart Phone*

Using the latest in Ultrasonic Transit Time technology, this non-contact liquid Flow Meter measures flow rate and totalization through metal or plastic pipe sizes ranging from 2" to 20". The Transit Time technology sends a sound pulse across the pipe and monitors the return differential of the transmit pulse, as well as the return time. It then uses this data to accurately calculate your volumetric flow rate and total.

Now you are ready to program the NCMP flow meter.



Program the meter to your specific application parameters, adjust the transducer spacing as needed, and then attach or hand-hold the NCMP to the pipe. Your flow and diagnostics should begin to appear on your Smart Phone.



### Typical Applications:

- Water
- Wastewater
- HVAC
- Drinking water
- Chilled water
- Hot water
- Solar panels
- Hot water heaters
- General Plumbing
- Well water
- Facilities
- Water plants
- Energy – Power plants
- Distilled water
- RO Water
- Ground water
- Oil
- Chemicals
- Fracking Water
- Sea Water
- Sewage

And many more...

### The optimum performance location for NCMP is on a rigid metal or plastic pipe, sizes 2" to 20". This technology is designed for clean liquids and requires no suspended solids (like an ultrasonic doppler flow meter). The process liquid should have < 2% suspended solids or aeration and the standard 15 pipe diameters of straight run of pipe (elbow to elbow) for pumped flows of 10 fps.

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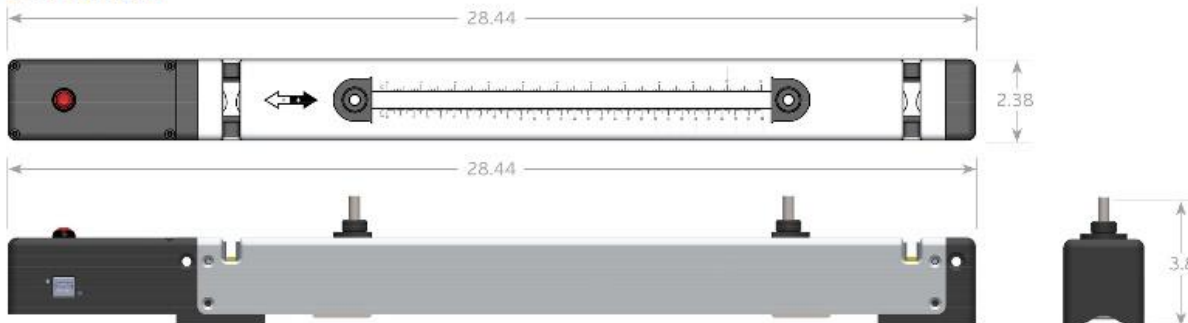
SPECIFICATIONS: FLOWMETER	
<b>Operating Parameters:</b>	For clean liquids in full pipes with < 2% solids or bubbles
<b>Data Entry:</b>	Bluetooth device – iPhone, iPod touch and Android devices
<b>Meter Enclosure:</b>	IP65, Weather resistant
<b>Accuracy:</b>	>1 FPS $\pm 2\%$ of reading typical <1 FPS $\pm 0.1$ ft/sec reading typical. Repeatability $\pm 0.5\%$ of reading typical
<b>Power Input:</b>	Battery, up to 8 hours continuous operation. External charger USB to 100-240VAC 50/60Hz input cable
<b>Display:</b>	On your Smart device – Flow rate, Flow Total, Units, Pipe data, and Diagnostics
<b>Software:</b>	Saves and recalls site setup information. Mobile App for iPhone, iPod touch and android devices. Automatic software updates with cellular or Wi-Fi connection 4-20mA (500 ohm) when powered by AC adapter. USB for data log transfer by direct PC connection
<b>Operating Temp. (electronics):</b>	-5° to 140°F (-20° to 60°C)
<b>Carry Case:</b>	Soft carry case,
<b>Pipe Size:</b>	1" to 20"(25mm to 120mm)
<b>Pipe Material:</b>	Any Metal or Plastic rigid Pipe
<b>Flow Range:</b>	0.1 to 30 FPS (0.03-12.2 MPS) typical
<b>Operating Temp:</b>	-20° to 150°F (-40° to 150°C)
<b>Mounting Kit:</b>	Mounting cord and acoustic coupling compound

Portable Ultrasonic Flow Meter	
PN	Description
NCMP-SMART	Portable Ultrasonic Flow Meter
NCMP-SMART-KIT 1	Portable Ultrasonic Flow Meter Kit with USB cord, Couplant, Mounting Straps, Carrying case.
NCMP-SMART-KIT 2	Portable Ultrasonic Flow Meter Kit with USB cord, Couplant, Mounting Straps, Carrying case and iPod Touch
NCMP-SMART-KIT 3	Portable Ultrasonic Flow Meter Kit with USB cord, Couplant, Mounting Straps, Carrying case and Google Nexus
Parts & Accessories	
NCM-9100	Mounting Straps (2x27" – 190 cm)
NCM-9200	Soft Carry Case
NCM-9300	USB Cord
NCM-9400	USB power adapter < 5W, CE
NCM-9500	Acoustic Couplant gel (12oz)
NCM-9550	Acoustic Couplant gel (4oz)

NCMP-SMART Data Sheet Rev 1.20.15



**DIMENSIONS**



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