

Camano™ Ultrasonic Flowmeter



Camano is a flowmeter for long-term flow monitoring with a wall mount touch screen and separate transducer set. It also connects to your SCADA/PLC systems. It's ideal when a local display is required or for submersible applications.

The Camano offers accurate and reliable flow measurement quickly in a wide variety of applications—with minimum setup time and maximum ease of use!



Fast to install, easy to use.

SoundWater Advantages

MEASUREMENTS YOU CAN TRUST

Our proprietary SoundWater Reciprocity Architecture™ prevents zero-flow drift and eliminates the need for calibration, resulting in long-term measurement stability and accuracy.

INCREASES PRODUCTIVITY

Featuring compact lightweight construction and intuitive apps—our products streamline installation, training, and setup—saving you time and money.

MADE IN USA

Locally owned and operated out of Wenatchee, Washington, our products are built with American quality and ingenuity.

WORKS IN TOUGH APPLICATIONS

Our transducers auto-adjust ultrasonic power output depending upon pipe and fluid conditions—giving you more frequent measurements when things get tough (e.g., corroded pipe or murky fluid).

LONG LIFE / LOW MAINTENANCE

SoundWater products are built to last using the highest quality materials, gasketed & double O-ring seals, and silicone gel to protect electronics.

SERVICE & ACCOUNTABILITY

We establish long-term customer relationships based on trust and service. We will respond to your needs and requests within 24 hours.

Advantages & Features

- · Long term flow monitoring
- Wall mounted touch screen & App
- Submersible
- SoundWater Reciprocity Architecture
- Auto-Adjusting Ultrasonic Power

- Connects with your SCADA/PLC
- Gel-free transducers (optional)
- Measures wide range of fluids and pipe types, including challenging applications
- Flexible control unit mounting and connection options



Features





Dimensions

Camano Txx-C5





Camano Txx-C11



Camano Txx-CM5





Camano Txx-CM11





The Camano Control Unit and Camano App

Control Box







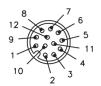
Connecting Power & Communications

Connect 24V DC power using the supplied cable. For all wired connections, check the wire color code table, and pinout diagrams below for proper set up. Also, refer to wiring diagrams on the following pages for guidelines.

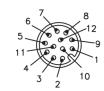
WIRING COLOR DEFINITIONS

- 1 Power ground 0V
- 2 RS485 Data (+)
- 3 Pulse output, open drain
- 4 4-20mA output
- 5 RS485 Data (-)
- 6 MODBUS, isolated ground
- 7 Not connected
- 8 Power 20-26V DC
- 9 Alarm output, open drain
- 10 Not connected
- 11 Power ground 0V
- 12 Not connected

Flowmeter Pinout



Supplied Cable Pinout



App Features

- Android-based, interactive touchscreen
- Easy configuration for 4-20 mA, pulse, MODBUS RTU, and alarms
- Programmable alarms
- Select from a wide range of fluids and pipe types
- Flexible control unit mounting and connections
- Backlit for maximum visibility in darkness or sunlight
- English or metric units

Camano Specifications*

Installation	15 pipe diameters upstream, 5 diameters downstream for optimal performance (typical)				
Flow Detection	Bi-directional; 0 ft/s to 30 ft/s (0 m/s to 10 m/s)				
Pipe Size	1" to 36" (nominal)				
Performance	3" to 36" ±1. 1" to 2" ±2. *Under standard conditions,	n; flow rate above 3 ft/s	-20 -20 ed and symmetri or 1m/s; non-ae	erated liquids). If the equipmen	
Turndown	300:1				
Environmental	DISPLAY: IP65 splash proof; weather and corrosion resistant sensor: IP67; temporary submersible; weather and corrosion resistant				
Flowmeter Materials	BODY: Anodized aluminum channel, HDPE & PVC electronics housing and footings MOUNTING STRAPS: Stainless Steel FASTENERS: Stainless steel CONNECTOR: M12, nickel plated brass				
Control Unit Materials	CONTROL BOX: Polycarbonate enclosure, glass touchscreen, stainless steel circular connector, nickel plated brass USB connector, nickel plated brass transducer connector, EPDM rubber BACKPLATE: Stainless steel				
Temperature	Display: -20° to 100° F (-29° to 38° C) Transducer: -20° to 212° F (-29° to 100° C)				
Outputs	NOTE: The isolation for all outputs is as a group; that is, all of the outputs share a common reference. CURRENT (4-20 MA): Isolated 4-20 mA, directly proportional to flow—4 mA/zero flow (fixed), 20 mA/user programmable flow. Accuracy (linearity): 16-bit (15 ppm); PULSE: Isolated, NFET (NPN type) open drain output with a frequency directly proportional to flow Maximum frequency: 10 kHz; mark: space ratio = 50.0: 50.0 (accurate to < 1 ppm) DIGITAL ALARM: Isolated, NFET (NPN type) open drain output, configured to change state at any user-selected combination of: 1) high flow, 2) low flow, 3) poor acoustic signal (e.g., empty pipe, disconnected transducers, etc.); 4) open 4-20 mA circuit MODBUS RTU: Isolated, RS485 half duplex				
	•				
Hardware	•	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 6" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12"	LENGTH 16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6"	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F	
	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T42-C5 Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 6" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces	16.6" 22.6" 16.6" 22.6" 16.6" 16.6" 22.6" 16.6"	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP
Hardware Display Power Consumption	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T42-C5 Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 6" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces creen user interface	16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6"	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F Steels, Plastics, Alum	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP
Display	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T31-C11 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o Android-based touchs 24 V DC, external pow	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 6" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces creen user interface er; 300mA typical@al AC-DC converter	16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6"	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F Steels, Plastics, Alum	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP
Display Power Consumption	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T31-C11 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o Android-based touchs 24 V DC, external pow Recommended extern	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 6" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces creen user interface er; 300mA typical@al AC-DC converter	16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 22.6" ae; backlit; M	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F Steels, Plastics, Alum etric and English units	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP
Display Power Consumption Software	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T31-C11 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o Android-based touchs 24 V DC, external pow Recommended extern Android OS/Android-base	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces creen user interface er; 300mA typical@ al AC-DC converter ased app	16.6" 22.6" 16.6" 22.6" 16.6" 26.6" 16.6" 27.6" 28.6" 29.7 We part #PLUS	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F Steels, Plastics, Alum etric and English units	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP
Display Power Consumption Software Security	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T31-C11 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T31-CM5* Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o Android-based touchs 24 V DC, external pow Recommended extern Android OS/Android-base 6-digit passcode protes	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 6" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces creen user interfact er; 300mA typical@ al AC-DC converter ased app ects configuration/s gies, Wenatchee W	16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 22.8" 22.7 Wee; backlit; Mee; backlit;	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F Steels, Plastics, Alum etric and English units	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP ninum, FRP & Copper/Brass
Display Power Consumption Software Security Manufacture	MODBUS RTU: Isolated, F MODEL Camano T31-C5 Camano T31-C11 Camano T41-C5 Camano T41-C11 Camano T42-C5 Camano T31-CM5* Camano T31-CM5* Camano T31-CM11* Camano T41-CM5 *High corrosion, large pipe o Android-based touchs 24 V DC, external pow Recommended extern Android OS/Android-based 6-digit passcode protes SoundWater Technolog Reciprocity based hard	PIPE SIZE RANGE 2" to 8" 2" to 18" 2" to 14" 1" to 6" 6" to 18" 6" to 36" 6" to 12" r tight spaces creen user interfact er; 300mA typical@ al AC-DC converter ased app ects configuration/s gies, Wenatchee W dware for measure	16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6" 22.6" 16.6" 22.8" 22.8" 22.9 V, 8W 220 V, 8W 20 part #PLUS 20 V, 8W 2	Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Plastics, Alum Steels, Ductile Iron, F Steels, Ductile Iron, F Steels, Plastics, Alum etric and English units	ninum, FRP ninum, FRP & Copper/Brass ninum, FRP & Copper/Brass n, FRP & Copper/Brass Plastics, Aluminum, FRP Plastics, Aluminum, FRP ninum, FRP & Copper/Brass