

TMCO

PROVERS

FULL SERVICE PROVIDER OF HIGH-PRECISION
FLOW MEASUREMENT



CALCUBE MODULAR PROVING SYSTEMS



MOBILE PROVING SYSTEMS



PROVING SYSTEMS



FCT UPGRADABLE



PROVING SYSTEMS

Full service provider of high-precision flow measurement



FEATURING

- Pulsation free master meters
- Lowest uncertainties calculated according to international standards
- Fastest calibration (less than 60 seconds per calibration point)
- Multiple sensors (LF and HF) simultaneous
- Integrated filter elements help to maintain a high level of performance
- Calibration and recalibration by means of smart traveling reference meters, traceable to recognized metrological institutes
- Plug and Play
- Remote operation
- Optional ISO 17025 certification

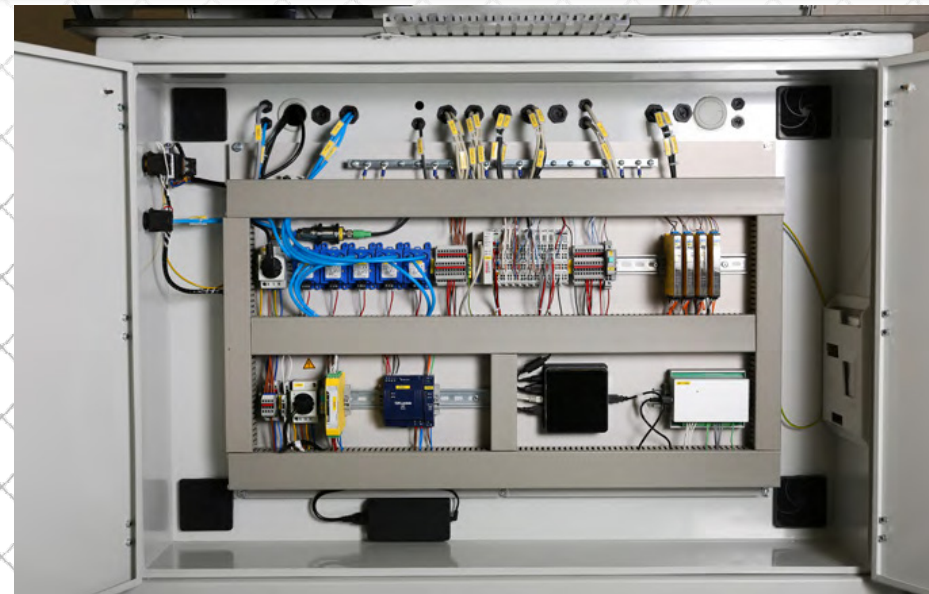
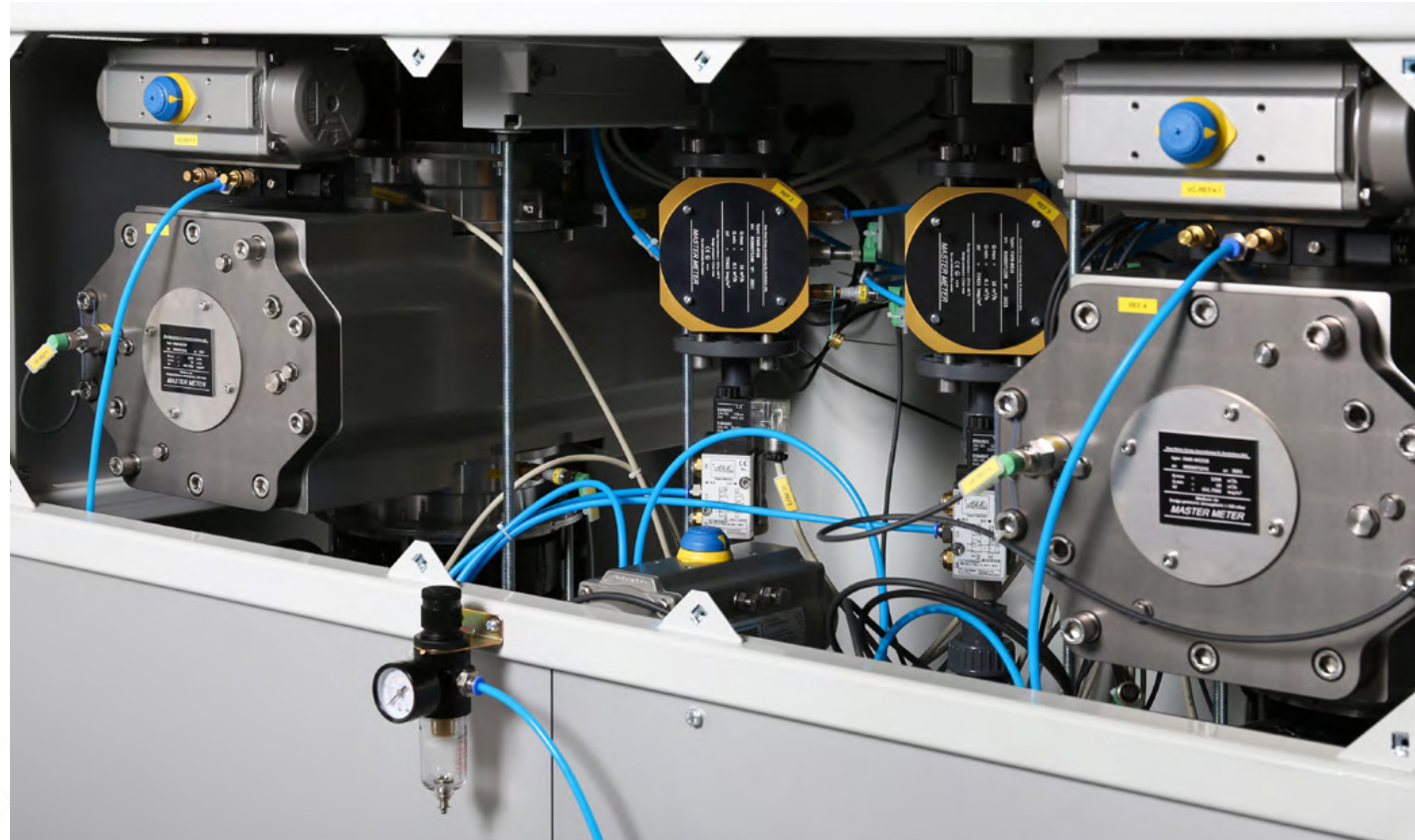
GENERAL SPECIFICATIONS

Flow Rates M2500 (88M)	35 – 88,000 cfh (2 – 2500 m ³ /h) 9 – 35 cfh (0.25 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.25% TOTAL UNCERTAINTY < 0.5%
Flow Rates M1000 (35M)	35 – 35,000 cfh (2 – 1000 m ³ /h) 9 – 35 cfh (0.25 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.25% TOTAL UNCERTAINTY < 0.5%
	Other and lower flow rates on request	
Repeatability	< 0.1%	
Dimensions (LxWxH)	3.8' x 4.45' x 7.9' (1150 x 1350 x 1500 mm)	
Weight	1430 lbs (650 kg)	
Operating temperature range	50 – 86 °F (10 – 30 °C)	larger range on request
Storage temperature range	-13 – 140 °F (-25 – 60 °C)	larger range on request
Differential pressure sensor	0 – 0.80 psi (0 – 55 mbar)	larger range on request
Atmospheric pressure sensor	13.5 – 15.5 psi (950 – 1050 mbar)	larger range on request

OTHER SPECIFICATIONS

AC Power M2500/88M	11kW, 380 Vac, 50/60Hz
AC Power M1000/35M	7.5kW, 380 Vac, 50/60Hz
PC and software	NUC or similar with Intel Core I series 8GB DDR3-1600 RAM 300GB Solid State Drive Screen 22" LCD High Resolution Keyboard (English version), mouse Ethernet Port 1Gbps Windows 10 or higher Remote Access Software
Control Software	User friendly interface Real time uncertainty calculations Overview uncertainty contributions Configurable test reports Selectable imperial / metric units
Sensor box Meter Under Test	up to 4 signals (LF or HF)





CALCUBE MODULAR PROVING SYSTEMS



A transportable prover that can be lifted and transported by one person. Three light weight detachable cubes when combined, function as a fully operational prover.

FEATURING

- Three disconnectable cubes of less than 73 lbs (< 33 kg)
- Maximum dimensions per cube (LxWxH) 20" x 20" x 20" (50 x 50 x 50 cm)
- Dimensions complete CalCube (LxWxH) 40" x 20" x 20" (100 x 50 x 50 cm)
- Pulsation free master meters
- Lowest uncertainties calculated according international standards
- Fastest calibration (less than 60 seconds per calibration point)
- Multiple sensors (LF and HF) simultaneous
- Integrated filter elements to maintain the high level of performance
- Calibration and recalibration by means of smart traveling reference meters, traceable to recognized metrological institutes
- Plug and play
- Remote operation
- Multiple mounting possibilities (van, truck, table, mobile)
- Optional ISO 17025 certification

CALCUBE MODULAR PROVING SYSTEMS

GENERAL SPECIFICATIONS

Flow Rates M250 (10M)	70 – 10000 cfh (2 – 250 m ³ /h) 0.25 – 2 m ³ /h (9 – 70 cfh)	TOTAL UNCERTAINTY < 0.3% TOTAL UNCERTAINTY < 0.5%
Flow Rates M160 (5M)	70 – 5000 cfh (2 – 160 m ³ /h) 9 – 70 cfh (0.25 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.3% TOTAL UNCERTAINTY < 0.5%
	Lower flow rates on request	
Repeatability	< 0.1%	
Dimensions combined (LxWxH)	40" x 20" x 20" (1000 x 500 x 500 mm)	
Weight per cube	< 73 lbs (< 33 kg)	< 55 lbs (<25 kg) on request
Weight complete prover	<165 lbs (< 75 kg)	
Operating temperature range	50 – 86 °F (10 – 30 °C)	larger range on request
Storage temperature range	-13 – 140 °F (-25 – 60 °C)	larger range on request
Differential pressure sensor	0 – 0.80 psi (0 – 55 mbar)	larger range on request
Atmospheric pressure sensor	13.5 – 15.5 psi (950 – 1050 mbar)	larger range on request

OTHER SPECIFICATIONS

AC Power	1.1kW, 100 – 240Vac, 50/60Hz
Laptop and software	Intel Core I series 8GB DDR3-1600 RAM 300GB Solid State Drive Ethernet Port 1Gbps Windows 10 or higher Remote Access Software
Control Software	User friendly interface Real time uncertainty calculations Overview uncertainty contributions Configurable test reports Selectable imperial / metric units
Sensor box Meter Under Test	up to 4 signals (LF or HF)

CALCUBE MOBILE PROVING SYSTEMS



QUICK FIX INLET ADAPTERS

PULSATION FREE MASTER METERS



CALCUBE MOBILE PROVING SYSTEMS



INTEGRATED FILTER ELEMENTS HELP TO MAINTAIN A HIGH LEVEL OF PERFORMANCE



MOBILE PROVING SYSTEMS



FEATURING

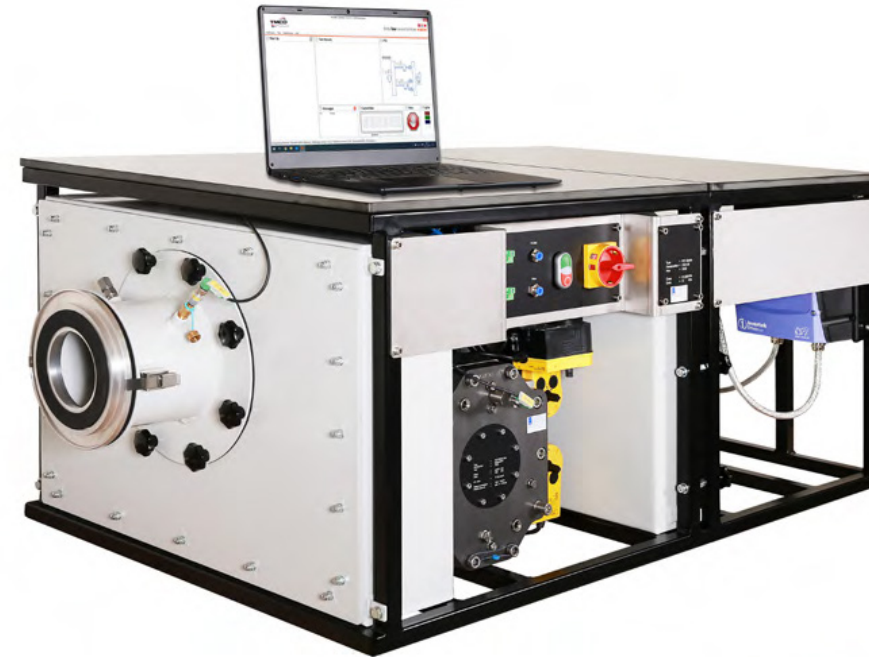
- Pulsation free master meters
- Lowest uncertainties calculated according to international standards
- Fastest calibration (less than 60 seconds per calibration point)
- Multiple sensors (LF and HF) simultaneous
- Integrated filter elements help to maintain a high level of performance
- Calibration and recalibration by means of smart traveling reference meters, traceable to recognized metrological institutes
- Plug and Play
- Remote operation
- Multiple mounting possibilities (van, truck, table, mobile)
- Optional ISO 17025 certification

GENERAL SPECIFICATIONS

Flow Rates M650 (23M)	70 – 23,000 cfh (2 – 650 m ³ /h) 18 – 70 cfh (0.5 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.3% TOTAL UNCERTAINTY < 0.6%
Flow Rates M400 (14M)	70 – 14,000 cfh (2 – 400 m ³ /h) 18 – 70 cfh (0.5 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.3% TOTAL UNCERTAINTY < 0.6%
	Lower flow rates 3.5 and 9 cfh (0.1 and 0.25 m ³ /h) on request	
Repeatability	< 0.1%	
Dimensions (LxWxH)	47" x 20" x 20" (1200 x 800 x 600 mm)	
Weight	Approx. 500 lbs (Approx. 225 kg)	
Operating temperature range	50 – 86 °F (10 – 30 °C)	larger range on request
Storage temperature range	-13 – 140 °F (-25 – 60 °C)	larger range on request
Differential pressure sensor	0 – 0.80 psi (0 – 55 mbar)	larger range on request
Atmospheric pressure sensor	13.5 – 15.5 psi (950 – 1050 mbar)	larger range on request

OTHER SPECIFICATIONS

AC Power	2kW, 100 – 240Vac, 50/60Hz	
Laptop and software	Intel Core I series 8GB DDR3-1600 RAM 300GB Solid State Drive Ethernet Port 1Gbps Windows 10 or higher Remote Access Software	
Control Software	User friendly interface Real time uncertainty calculations Overview uncertainty contributions Configurable test reports Selectable imperial / metric units	
Sensor box Meter Under Test	up to 4 signals (LF or HF)	



MOBILE PROVING SYSTEMS



**INTEGRATED FILTER ELEMENTS HELP TO
MAINTAIN A HIGH LEVEL OF PERFORMANCE**



FCT-M2500 / M5000 / M10000 UPGRADABLE

Full service provider of high-precision flow measurement



FEATURING

- Pulsation free master meters
- Lowest uncertainties calculated according to international standards
- Fastest calibration (less than 60 seconds per calibration point)
- Multiple sensors (LF and HF) simultaneous
- Integrated filter elements help to maintain a high level of performance
- Calibration and recalibration by means of smart traveling reference meters, traceable to recognized metrological institutes
- Plug and Play
- Remote operation
- Optional ISO 17025 certification

GENERAL SPECIFICATIONS

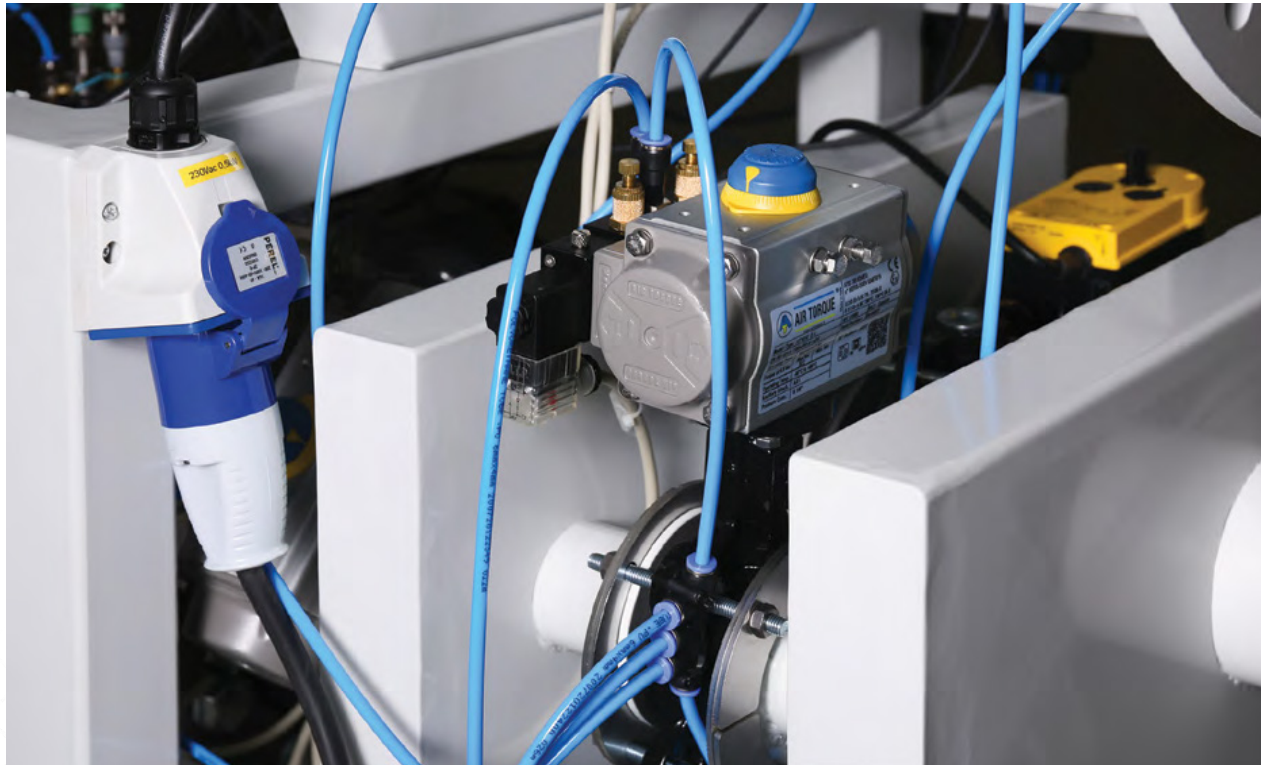
Flow Rates M10000 (350M)	35 – 350,000 cfh (2 – 10000 m ³ /h) 9 – 35 cfh (0.25 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.25% TOTAL UNCERTAINTY < 0.5%
Flow Rates M5000 (175M)	35 – 175,000 cfh (2 – 5000 m ³ /h) 9 – 35 cfh (0.25 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.25% TOTAL UNCERTAINTY < 0.5%
Flow Rates M2500 (88M)	35 – 88,000 cfh (2 – 2500 m ³ /h) 9 – 35 cfh (0.25 – 2 m ³ /h)	TOTAL UNCERTAINTY < 0.25% TOTAL UNCERTAINTY < 0.5%
	Other and lower flow rates on request	
Repeatability	< 0.1%	
Dimensions (LxWxH)	7' x 3.8' x 4.5' (2150 x 1150 x 1380 mm)	
Weight	1430 lbs (650 kg)	
Operating temperature range	50 – 86 °F (10 – 30 °C)	larger range on request
Storage temperature range	-13 – 140 °F (-25 – 60 °C)	larger range on request
Differential pressure sensor	0 – 0.80 psi (0 – 55 mbar)	larger range on request
Atmospheric pressure sensor	13.5 – 15.5 psi (950 – 1050 mbar)	larger range on request

OTHER SPECIFICATIONS

AC Power M10000/350M	44kW, 380 Vac, 50/60Hz
AC Power M5000/175M	22kW, 380 Vac, 50/60Hz
AC Power M2500/88M	11kW, 380 Vac, 50/60Hz
PC and software	NUC or similar with Intel Core I series 8GB DDR3-1600 RAM 300GB Solid State Drive Screen 22" LCD High Resolution Keyboard (English version), mouse Ethernet Port 1Gbps Windows 10 or higher Remote Access Software
Control Software	User friendly interface Real time uncertainty calculations Overview uncertainty contributions Configurable test reports Selectable imperial / metric units
Sensor box Meter Under Test	up to 4 signals (LF or HF)



FCT-M2500 / M5000 / M10000 UPGRADABLE





FULL SERVICE PROVIDER OF HIGH-PRECISION FLOW MEASUREMENT



www.tmcousa.com | support@tmcousa.com | 713.465.3255

Copyright© 2024 TMCO, LLC All rights reserved. Specification may change without notice.

ML 0007 01-2024