



D. Marchiori

General Catalogue

Air Data Test Sets



MPS63

NEXT GENERATION
ULTRA COMPACT DIGITAL
AIR DATA TEST SET



MPS43B

ULTRA COMPACT ADTS



MPS62

COMPACT NON-RVSM ADTS



MPS50

UP TO 4 INDIVIDUAL
CHANNEL MULTIPORT
AIR DATA TEST SET



MPS48P

4-CHANNEL LABORATORY
MULTIPORT AIR DATA TEST SET
WITH INTERNAL PUMPS

REMOTE CONTROL OPTIONS



MPSMON-C



MPSRE3



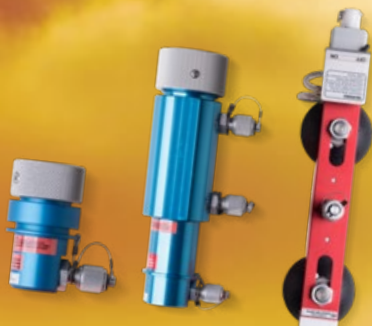
MPSRC



MPSRW2

Optional **Android/Apple**
tablet Wi-Fi operation

Adapter Kits



ADAPTERS

COMPREHENSIVE RANGE
OF PITOT-STATIC ADAPTERS
AND KITS AVAILABLE



ADS231018RC

ULTRA COMPACT
STATIC ADAPTER



ADTA2075

PITOT PROBE
HEAT ALERT DEVICE

Air Data Test Sets



MPS62 NEXT GENERATION 2-CHANNEL COMPACT NON-RVSM ADTS

- Ps $\geq$ 55000 ft – Pt $\geq$ 700 kts
 - Improved Pumps featuring an extended 1500 hrs warranty
 - Inbuilt Vacuum Source enabling DMA Adapter Kit operation
 - Enhanced Wide Touch Screen Display, Integrated Wi-Fi
 - Powered by AC, 28VDC
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MPS63 NEXT GENERATION 2-CHANNEL ULTRA COMPACT ADTS

- Ps $\geq$ 55000 ft – Pt $\geq$ 700 kts
 - 2-Hour Operation Removable Lithium Battery
 - Improved Pumps featuring an extended 1500 hrs warranty
 - Inbuilt Vacuum Source enabling DMA Adapter Kit operation
 - Optional Ps & Pt distribution manifold
 - Enhanced Wide Touch Screen Display, Integrated Wi-Fi, Reduced weight
 - Powered by AC, 28VDC or Internal Battery
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MPS43B 2-CHANNEL ULTRA COMPACT ADTS

- Ps $\geq$ 55000 ft – Pt $\geq$ optional 650 kts
 - 1-Hour Operation Removable Battery
 - Pumps featuring an 1500 hrs warranty
 - Inbuilt Vacuum Source enabling DMA Adapter Kit operation
 - Optional Ps & Pt distribution manifold
 - Touch Screen Display, Keyboard input
 - Optional Wi-Fi / Bluetooth
 - Reduced weight
 - Powered by AC, 28VDC or Internal Battery
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MPS50 4-CHANNEL MULTI-PORT ADTS

- Ps $\geq$ 80000 ft – Pt $\geq$ 850 kts
- 2-Hour Operation Removable Lithium Battery
- Improved Pumps featuring an extended 5000 hrs warranty
- Inbuilt Vacuum Source enabling DMA Adapter Kit operation
- Touch Screen Display, Keyboard input, Optional Wi-Fi / Bluetooth
- Powered by AC, 28VDC or Internal Battery



MPS46 2-CHANNEL LABORATORY MULTIPOST ADTS

- $P_s \geq 100000$ ft – $P_t \geq 1000$ kts – $ROC \geq 6,000$ ft/min
- Accuracy ± 2 feet at sea level
- External Vacuum Port
- USB, RS232, Ethernet and IEEE-488 interface ports for ATE/PC operations
- Touch Screen Display, Keyboard input
- Optional Internal Pump (MPS46P)
- Single Channel Version Available w/o Internal Pump (MPS46PM/M)
- 2U 19" rack format



MPS46H 2-CHANNEL LABORATORY MULTIPOST ADTS

- $P_s \geq 100000$ ft – $P_t \geq 1000$ kts – $ROC \geq 15,000$ ft/min
- Accuracy ± 2 feet at sea level
- External Vacuum Port
- Optional Internal Pump (MPS46PH)
- USB, RS232, Ethernet and IEEE-488 interface ports for ATE/PC operations
- Touch Screen Display, Keyboard input
- 2U 19" rack format



MPS48 4-CHANNEL LABORATORY MULTIPOST ADTS

- $P_s \geq 100000$ ft – $P_t \geq 1000$ kts – $ROC \geq 6,000$ ft/min
- Accuracy ± 2 feet at sea level
- Improved Internal Pumps featuring an extended 5000 hrs warranty
- External Vacuum Port
- Optional Internal Pump (MPS48P)
- USB, RS232, Ethernet and IEEE-488 interface ports for ATE/PC operations
- Touch Screen Display, Keyboard input
- 2U 19" rack format



MPS56 2-CHANNEL LABORATORY MULTIPOST ADTS

- $P_s \geq 100000$ ft – $P_t \geq 1000$ kts – $ROC \geq 10,000$ ft/min
- Accuracy ± 2 feet at sea level
- External Vacuum Port
- USB, RS232, Ethernet and IEEE-488 interface ports for ATE/PC operations
- Touch Screen Display, Keyboard input
- 3U 19" rack format

Available Options

FLIGHTLINE ADTS

- A2** No internal battery
- B3** Ethernet port
- B4** IEEE488 GPIB control
- B5** ARINC429 interface
- B7** Altitude Encoder – Gray Code
- E** Up to 8 Ps + 4 Pt Multiple Isolator Ports
- F4** ADWIN PC Control software (unlocked)
- K1** AN4 (Ps) + AN4 (Pt)
- K2** AN6 (Ps) + AN4 (Pt)
- K5** Staubli red (Ps) + black (Pt)
- K7** Staubli black (Ps) + red (Pt)
- T0** Power cable 2m Schuko plug
- T1** Power cable 2m American plug
- T3** Power cable 2m Australian plug
- T4** Power cable 2m UK plug

LABORATORY ADTS

- B1** USB port
- B3** Ethernet port
- B4** IEEE488 GPIB control (RS232 standard)
- B5** ARINC429 interface
- B7** Altitude Encoder – Gray Code
- E2** 2 Ps + 2 Pt Multiple Isolator Ports
- E3** 3 Ps + 3 Pt Multiple Isolator Ports
- F0** ADWINLAB PC Control software
- J3** Ps extended to 100,000 ft*
- J4** Ps control extended to 1700 hPa, -15,000 ft*

**Options J3 & J4 require external pumps, can be combined if required.*

Wired / Wireless Remote Control Option



Optional **Android/Apple**
tablet Wi-Fi operation



MPSRC



MPSRW2



MPSRE3



MPSMON-C

Associated Products



EPU6
Power Unit

The **EPU6** is an external power module extending ADTS battery life up to 6 hours. Unit may be recharged during ADTS operation.



DMMI53
Manual Multiport Isolator Unit

The **DMMI53** multiport isolator unit features up to 5 Ps and 3 Pt independent output ports and 2 input ADTS connections enabling a prompt leak detection through an efficient port isolation system. Suited to most ADTS models.



EPSR4
Pressure Vacuum Generator

The **EPSR4** provides pressure and vacuum outputs for laboratory test sets. Available as a rack mount or table top module.



DMMI3
Pressure Switching Unit

The **DMMI3** provides up to 8 Ps + 8 Pt multiple outputs.

CURRENT PRODUCTS

- FLIGHTLINE ADTS -

TYPE NO	MPS62	MPS43B	MPS63	MPS45	MPS45HF	MPS49	MPS50
Type	Compact	Ultra Compact	Ultra Compact	Extended	Extended	Extended	Extended
Altitude Range	• •	• •	• •	• • •	• • •	• • •	• • •
Airspeed Range	• •	•	• •	• • •	• • •	• • •	• • •
Accuracy	Non RVSM	RVSM	RVSM	RVSM	RVSM	RVSM	RVSM
Independent Channels	2	2	2	2	2	3	4
Internal Pump	✓	✓	✓	✓	✓	✓	✓
Flow Capacity	• •	• •	• •	• • •	• • • •	• • •	• • •
Inbuilt Vacuum Port	✓	✓	✓	✓	✓	✓	✓
Multiple Isolator	n/a	n/a	n/a	up to 4+4	up to 4+4	up to 4+4+4	up to 4+4+2+2
Battery (hrs)	n/a	1	2	2	2	2	2
Weight (kgs)	6	4.5	4	13	17	15	15
							

- LABORATORY ADTS -

TYPE NO	MPS46	MPS46H	MPS48	MPS56
Type	Laboratory	Laboratory	Laboratory	Laboratory
Altitude Range	• • • •	• • • •	• • • •	• • • •
Airspeed Range	• • • •	• • • •	• • • •	• • • •
Accuracy	RVSM+	RVSM+	RVSM+	RVSM+
Independent Channels	2	2	4	2
Internal Pump	option	option	option	n/a
Flow Capacity	• •	• • •	• •	• • • •
Multiple Isolator	up to 3+3	n/a	n/a	n/a
Weight (kgs)	7	7	7	7
				

HERITAGE PRODUCTS

Upon request legacy items may still be manufactured supporting customers with special project requirements.

MPS27C	MPS31C	MPS34C	MPS35C	MPS36	MPS39C/40C	MPS43
						

DMA offers a comprehensive range of pitot-static adapters and complete kit solutions including optional associated hoses and fittings covering most aircraft applications. An updated list can be found at adapterkits.dma-aero.com.

Kits



Selected Options

E1: 1St+1Pt Line Hoses Kit Output

K0: AN4 St, AN3 Pt, AN3 Vacuum

P0: Hose PVC 1/4" flexible transparent, St-Red, Pt-Blue, Vacuum-Neutral

V3: Rugged Black Case with compartments for Adapters and Hoses

Adapters



Associated Products



DMAKV2 VACUUM SOURCE UNIT

The DMAKV2 external unit provides a vacuum source for DMA static adapter suction cup operation.



ADTA2075 PITOT PROBE HEAT ALERT DEVICE

The DMA Pitot Heat Alert ADTA20xx series is an audible and visual temperature warning device to check Pitot probes exceeding preset temperature limits.



PAMB11H



PAMB12G

Ultra Compact Transfer Standards

The PAMB11H and enhanced GUI PAMB12G precision pressure indicators provide transfer standard accuracy through a dual channel input.

- Dual channel
- High accuracy ± 2 ft @ sea level
- Minimum drift
- Enhanced colour
- Touch Screen display
- Maximum resolution



MM14

Air Data Calibration Standards

The advanced technology MM14 system allows easy calibration of pressure instruments such as Air Data Test Sets.

- Better than 35ppm accuracy
- Automatic calibration
- High Performance Primary Standard
- UUT calibration up to 3.9 Bar Abs
- Integrated Transfer Standard and Pressure / Vacuum pumps



DMMI-TJS

Smart External Multiport Isolator Module

The DMMI multiport isolator module series features up to 14 independent selectable Ps, Pt, AoA+, AoA- output ports and 3 input ADTS connections.

Altitude, airspeed and angles of attack can be independently selected to address specific ports controlling up to 4 Ps, 6 AoA+ / AoA- and 4 Pt channels.

This enables a prompt leak detection through an efficient port isolation system.

Unit provides ability to establish different parameter values per each selected isolated ports.

Suited to most ADTS models.



DMSVI

Safety Valve Tester

The DMSVI Safety Valve Tester includes a number of standard features typically found in more expensive products. Unit consists of a rugged and splash-proof protective case suited to the most demanding commercial and flight line applications.

- Accuracy ± 6 ft at sea level
- Compact and self-contained
- LCD Touch Screen display featuring an ergonomic GUI
- Simultaneous display of required parameters
- Optional Remote Control Unit
- Low power consumption
- Lightweight (12.5 kgs/ 28 lbs)



SUPPLYING AIR DATA TEST SETS AND ADAPTER KITS TO THE WORLD

DMA supports the international aviation industry through high accuracy Air Data Test Sets and dedicated Adapter Kits to OEMs, MROs and professional users.

Establishment dates back to 1938 mainly as a test equipment manufacturer for European aviation requirements. DMA is committed to continuous product development meeting and exceeding the most demanding aviation industry standards.

LOCATION

D.Marchiori is based in Aprilia located south of Rome close to local international airports such as Fiumicino and Ciampino approx. 30 minutes drive away.

The extensive purpose built facility includes all internal activities associated with design, development and manufacturing together with an internationally accredited traceable calibration laboratory.

SERVICE AND SUPPORT

DMA products are supplied with user manuals to enable operators perform in-house Calibration and Maintenance tasks if required. Please note that a calibrated "Transfer Standard" is needed in order to compare measurements and evaluate accuracies.

DMA provides a "Calibration and fast Repair Service" in addition to Technical Support covering equipment use and fault issues.

Technical Support is available through the following service options:

Technical Support

RMA Procedure

RMA Status

All equipment returns must follow the implemented RMA procedure enabling a prompt tracking status significantly reducing waiting times.

DMA offers specific training courses for customers wishing to carry out service activities within their organization.

A recommended spare part list can be supplied to approved DMA service centres.

CALIBRATION

Accuracy is provided through an internal certified laboratory according to international standard systems. Calibration performed by software is fast and simple requiring no mechanical adjustments. Use of a traceable Pressure Standard is required to suit RVSM stringent ADTS requirements. Calibration parameters are password protected.

DISTRIBUTORS

D. Marchiori world locations and approved service centres can be found on the website or selected below:



Please refer to the following dedicated email contacts:

Sales: sales@d-marchiori.it

Service: service@d-marchiori.it

TECHNICAL CATALOGUES

Individual catalogues can be downloaded from our website at www.dma-aero.com.

Ongoing development results in specifications being subject to change without notice.



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<https://dma-aero.com/accreditation>*