

INTELLIGENT PRESSURE SCANNING VALVE



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COMPANY PROFILE

Dalian Windtuner Technology Co., Ltd. founded in 2017, is a technology-based enterprise focusing on flow field measurement and control technology, and committed to the research and application of flow field measurement and control system. It is a service provider of a complete set of flow field measurement and control solutions in aerospace, automotive engineering, turbine machinery, marine power, wind energy and other fields.

-  CNAS-accredited private calibration wind tunnel laboratory
-  Private company with supersonic probe calibration capabilities
-  CE certified domestic intelligent pressure scanning valve
-  Pneumatic probes with holes manufactured with micron-level 3D printing technology

PRODUCT USERS

Signum, Emerson, Siemens, Dyson, Hitachi, China Aerospace Science and Industry Group, China Aviation Industry Group, China Aero Engine Research Institute, China Aerodynamic Research and Development Center, China Aviation Development Commercial Aero Engine Co., Ltd., Institute of Engineering Thermophysics, Chinese Academy of Sciences, Chinese Academy of Sciences Shanghai Institute of Advanced Research, China Shipbuilding Industry Systems Engineering Institute, Nuclear Industry Physical and Chemical Engineering Institute, SBU Group, Shanghai Electric Group, Tsinghua University, Beijing University of Aeronautics and Astronautics, Shanghai Jiaotong University, Xi'an Jiaotong University, National University of Defense Technology, Harbin Engineering University, China University of Petroleum, Hong Kong University of Science and Technology, etc.



INTELLIGENT PRESSURE SCANNING VALVE

The WINDTUNER Intelligent Pressure Scanning Valve is a high-performance, high precision pressure acquisition equipment. It is designed for dry, non-corrosive gas measurement, and is specially designed for the test needs of aeroengines, gas turbines, wind tunnel test benches, and can be customized according to the requirements to meet the individual requirements of the fluid dynamics test.



KEY FEATURES

- Accuracy : 0.05%FS
- It has a maintenance-free built-in pneumatic valve path system.
- Internal zeroing calibration, full-scale calibration, and custom multipoint calibration are supported.
- Supports IEEE1588V2-2008 precision time protocol.
- Timestamp output during data stream collection is supported.
- Remote firmware updates are supported.
- Short supply cycle and prompt after-sales service.

INTERNATIONAL LEADING · QUALITY ASSURANCE

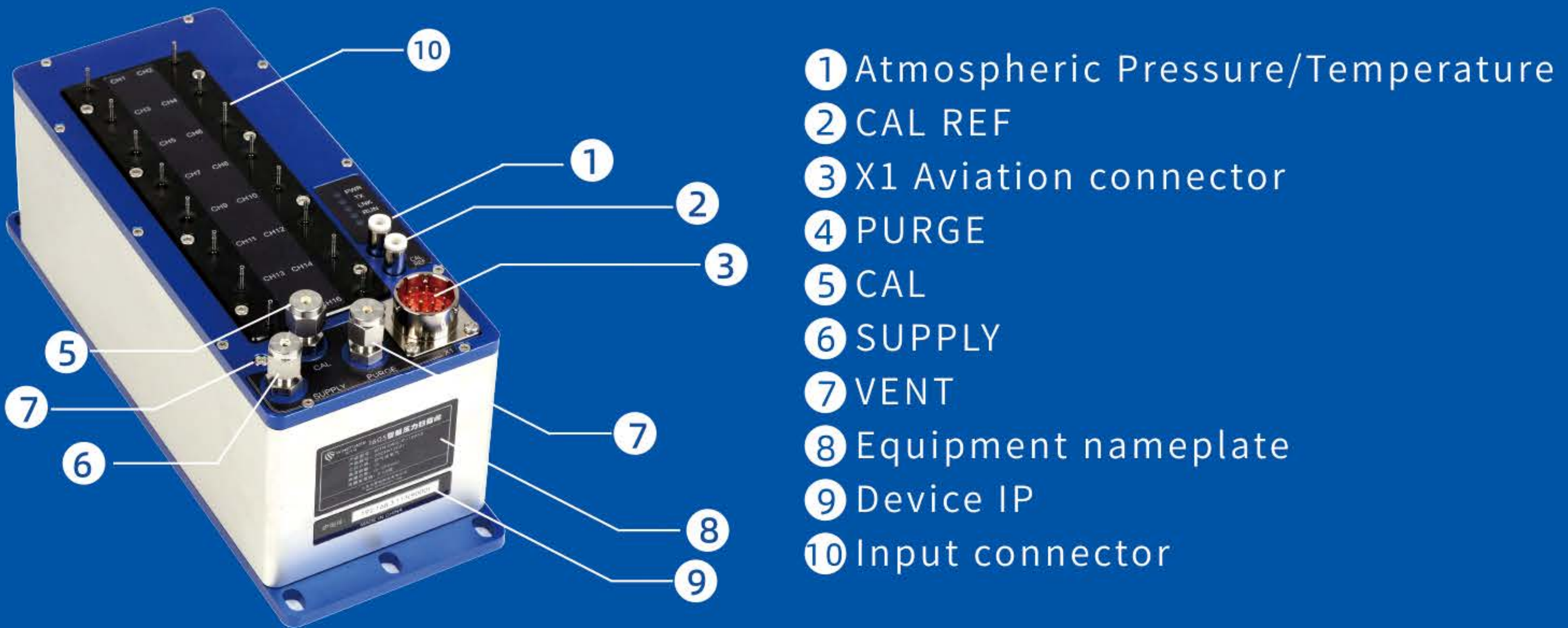
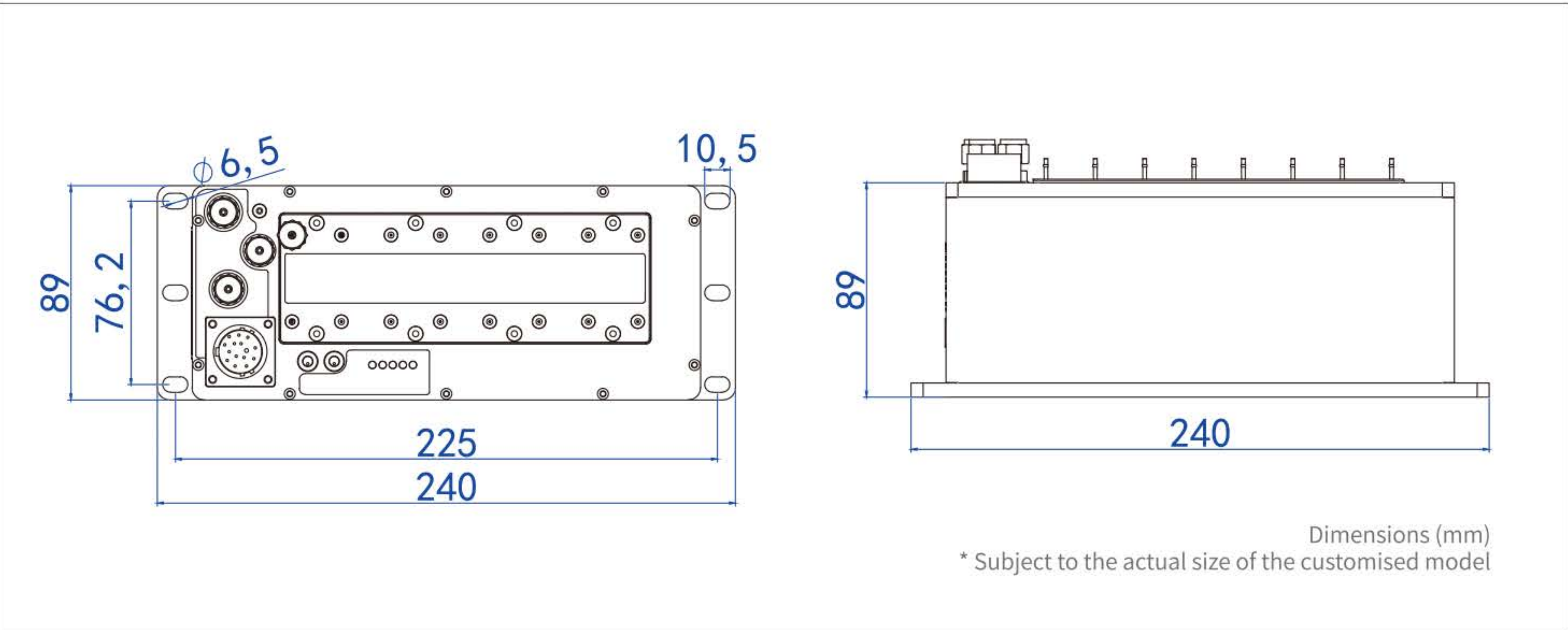
Through continuous innovation and technological upgrading, WINDTUNER intelligent pressure scanning valve has reached or surpassed the international level of similar equipment in terms of overall performance and technical indicators, and has been widely used in various fields such as aerospace and has been highly recognized, with excellent international competitiveness. WINDTUNER provides strong technical support and comprehensive after-sales service to ensure that users can get the best experience in any region.



COMPACT SIZE·RANGE SELECTION

WTN DAQ-P-1605 Intelligent Pressure Scanning Valve is designed with the concept of "smaller size, more functions, and better performance". With the design of split modularity, optional range, customised software, and convenient operation, it can not only be adapted to more complex working conditions, but also more accurately meet the individual testing needs.

INTELLIGENT PRESSURE SCANNING VALVE PRESSURE RANGE			
01	0.36psi	07	50psi
02	1psi	08	100psi
03	5psi	09	200psi
04	10psi	10	300psi
05	15psi	11	500psi
06	30psi	12	850psi
Absolute gauge pressure can be customized			



STABLE PERFORMANCE·EXCELLENT PRECISION

The WINDTUNER Intelligent Pressure Scanning Valve integrates 16 calibrated high-precision pressure sensor modules, which can be equipped with atmospheric pressure and atmospheric temperature sensors as required. Before mass production, the product undergoes stability testing for over 10,000 hours. A factory calibration certificate is provided upon delivery in accordance with national metrology technical specifications. Additionally, CNAS-accredited factory or annual calibration services can be offered according to customer requirements.

PRODUCT PARAMETERS

PRODUCT INDICATORS	PARAMETERS/DESCRIPTIONS
Power supply	(18~36) VDC , < 120mA
Working temperature range	(0~60) °C, (-30~60) °C
Working environment humidity	Relative humidity <90%, non-condensing
Accuracy level	0.05 available, see equipment nameplate for details
Total thermal error	±0.001%FS/°C
A/D	24
Communication protocols	TCP/IP,UDP
Sampling frequency	≤500Hz/CH (support for self-defined adjustment by users)
Trigger mode	Support software /hardware/Timed triggers
Number of channels	16 channels/unit

FULLY QUALIFIED·RELIABLE QUALITY



Products are manufactured in accordance with GB/T9001-2016idt ISO9001:2015 standard requirements for flow field measurement and control equipment, and have obtained the certificate of quality management system.



Products are subject to electro-magnetic compatibility tests according to GB/T18268.1-2010 requirements, and have obtained the certificate issued by the laboratory authorised and recognised by CNAS.



Products are calibrated in accordance with JJG875-2019 and JJF (JG) 329-2023, and have obtained calibration certificate



Products comply with the safety, health and environmental requirements of European laws and regulations, and have obtained the CE certificate.



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