КАТАЛОГ

на оборудование и программное обеспечение **OMNI**

4000/7000 SERIES
OMNI Flow Computer

REDUCE YOUR RISK

INCREASE INSTRUMENT RELIABILITY

IMPROVE PREDICTABILITY

Turn to OMNI - the most recognized and trusted brand of custody flow computers for oil and gas measurement.

MEASURE THE DIFFERENCE®

Reducing Uncertainty and Increasing Reliability for
Fiscal and Custody Transfer Flow Metering

When transferring high value oil and gas, you want the lowest levels of uncertainty and increased reliability to ensure revenue streams for all involved parties are not impaired. Even minuscule errors can translate into a huge financial impact over time.

You need a flow computer that can capture large amounts of data from gas chromatographs, meters, prover, density measurement instruments, sampler systems, flow, temperature and pressure measurement systems, and other third-party equipment in real-time, using the latest security protocols, and operating in compliance to all global compliance and standards organizations, to calculate the precise flow rate.

With the Series 4000/7000 flow computer, OMNI delivers a highly secure, powerful, and flexible solution for flow measurement.

The OMNI Series 4000/7000
is everything you need in a flow computer

RELIABLE

Because small mismeasurements can have a tremendous impact on profitability, installing the most reliable flow computer for determination of volume, mass, density, and API-approved conversion calculations is necessary. The OMNI 4000/7000 uses proven mathematical formulas combined with the latest technologies to deliver a flexible, robust, and highly accurate and reliable system.
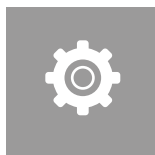
TRACEABLE

The OMNI Series 4000/7000 is fully traceable and incorporates the ability to log every change performed in the flow computer. The 4000/7000 allows a discrepancy to be traced back to the exact moment of change. OMNI also extends 100% traceability into our manufacturing and assembly process. Every flow computer is assigned a serial number, which allows the factory to trace the origin of every component, every step of assembly, and every point of quality testing and assurance. This process is incorporated into our ISO9000-2008 certification.

SECURE

The OMNI Series 4000/7000 is the most secure flow computer available today. It addresses security from two positions. First, it offers protection from internal vulnerabilities — both accidental and intentional — with the inclusion of individual user IDs and password protection, multiple levels of permissions, and the ability to configure the system but not edit the factory programming. Second, it protects the system from cyber-attacks and outside hackers by protecting access ports with customizable passwords or user-customizable Modbus maps, SSL encryption, and intruder detection in the SysLog. Plus, cyber-attacks cannot interrupt the flow of calculations in the 4000/7000.

EASY TO USE

The OMNI Series 4000/7000 simplifies the user experience in several ways. First, the front panel includes a highly functional, full-color LCD screen for fast, on-site interaction with the flow computer, as well as fewer buttons for enhanced usability. The OMNICONNECT® software incorporates enhanced configuration capabilities with an easy-to-learn and easy-to-use interface. Users can also access the flow computer remotely through OMNIPANEL®, a Windows-based software application that mimics the look and functionality of the 4000/7000 front panel.

ABLE TO STORE LARGE AMOUNTS OF DATA

The OMNI 4000/7000 has 128MB of ample execution memory. Measurement data storage is performed utilizing an 8GB SD card for historical data archiving. This highly efficient data storage feature translates into the ability to store data for very long periods – even multiple years. This makes it easy to conduct annual reconciliation or review. Because data can be extracted from the flow computer and then possibly manipulated in other systems within the process, the 4000/7000 maintains the original unmodified data so it can be used as an original reference if necessary. The data storage capabilities can also be used to provide data to external software applications in support of critical business analysis, such as for producing trending reports.

Verifiable factory programming and traceable field configurability

OMNI SERIES 4000/7000

The OMNI Series 4000/7000 flow computer delivers reliable, and fully traceable measurement of gas and liquid applications. As the most secure flow computer available, the 4000/7000 is ideal for custody transfer and fiscal measurement applications.

The Series 4000/7000, just like every OMNI built in the last 25+ years, is factory-programmed and user-configurable. OMNI provides secure factory programming, testing, and verification, so only field configuration is required to install, operate, and maintain the OMNI 4000/7000.

With full traceability from factory to operation, the OMNI 4000/7000 is the only flow computer to have received WELMEC WG7.2, issue 6, extension D approval. This means that if a discrepancy occurs, it can be traced back to the exact moment a change was made. This, combined with the large storage capacity of the Series 4000/7000, makes reconciliation much easier.

The new OMNI Series 4000/7000 flow computer combines decades of metering experience, verifiable factory programming, and traceable field configurability to ensure that it is the only choice when a reliable, secure, and fully traceable flow computer is needed.

APPROVALS

UL, CSA,
Available with European CE Mark. MID, European Directive 2004/22/EC, OIML R117-1, OIML D031, EN12405 Part 1; WELMEC WG7.2, issue 6, extension D approval

BENEFITS

- ☑ **Enhanced functionality with a simplified user interface and powerful software**
- ☑ **Powerful, robust, embedded, real-time operating system**
- ☑ **Fast access to critical data when you have remote connections like PLCs, DCSs, or SCADA systems**
- ☑ **365+ days of batch storage**
- ☑ **Searchable database**
- ☑ **Enhanced security for protection against cyber-intrusions**
- ☑ **Individual user IDs and passwords for enhanced security**

When you want to collect data on a device that is flexible and configurable,
YOU NEED OMNICONNECT®.

OMNICONNECT® is the highly flexible, easy-to-use software that is licensed with the OMNI Series 4000/7000 flow computer. Designed for an effortless user experience, OMNICONNECT® incorporates an enhanced level of configurability into a robust, fast, and highly responsive system. OMNICONNECT® allows users to perform many tasks on the 4000/7000, including online and offline flow computer configuration. It is also possible to view some operations, such as quality monitoring in gas systems, batching, and proving in liquid systems.

OMNICONNECT® FEATURES

- ☑ **Access to multiple flow computer sites**
- ☑ **Intuitive navigation and an easy to use menu**
- ☑ **User-configurable custom data screens for real-time register content**
- ☑ **Extensive F1 Help**
- ☑ **Administration of up to 16 user IDs and passwords**
- ☑ **Validation checks to recognize errors immediately**
- ☑ **Built-in Modbus database browser**
- ☑ **Customizable reports**

BUILT WITH THE USER IN MIND

OMNIPANEL® is another feature that makes the OMNI 4000/7000 user friendly. OMNI-PANEL is a convenient, Windows-based software application that delivers the look and function of the OMNI 4000/7000 front panel via a software interface.

It allows operator and technician functions to be performed remotely on the flow computer without being physically present at the 4000/7000 flow computer.

Depend Upon OMNI's Customer Support and Service
— For the Life of Your OMNI

WE'RE COMMITTED TO KEEPING YOUR OMNI OPERATING

With a MTBF (mean time between failure) of more than 10 years, OMNI flow computers are established as the most rugged and reliable flow computers available. However, when you require support, OMNI's team of customer service and field service specialists are available.

We offer:

PHONE SUPPORT
- Software Licensing
- Spare Parts Ordering
- Troubleshooting
- Operating and Configuration Questions

FIELD SUPPORT
- Installation
- Configuration
- Troubleshooting
- Onsite/On-The-Job Training

TRAINING PROGRAMS

OMNI Educational Services offers a variety of training programs for operators and technicians of all skill levels. Our programs include online, classroom, and onsite training. Our courses include:

- **BASIC OPERATOR CLASS**
- **OPERATOR/TECHNICIAN CLASS**
- **ADVANCED TECHNICIAN CLASS**

We can also create a customized curriculum to fit your specific firmware or hardware needs and industry requirements.

Migrate to a secure, reliable future with the OMNI 4000/7000

For 25+ years, OMNI has been committed to developing fully backward-compatible flow computers, so the OMNI you have installed on site can be upgraded to current OMNI specification, with all the capabilities, enhancements, and support that you need, when you need it.

The OMNI 4000/7000 was developed using a powerful operating system that supports substantial memory and real-time data transfer capabilities. It also incorporates the latest security protocols, which make the Series 4000/7000 the most secure flow computer on the market.

Custom Modbus database mapping converts most 4000/7000 registers to 3000/6000 flow computer registers, to maintain communications with SCADA and PLC systems, reducing engineering requirements.

The OMNI 4000/7000 uses the same chassis as the OMNI 3000/6000, reducing rewiring requirements and implementation time.

Installation requires minimal rewiring, to simplify installation and commissioning

Because the 4000/7000 flow computer incorporates these new solutions, OMNI has developed a simple migration path to allow existing OMNI users to transition to the best available embedded technology. When you upgrade your metering and information systems, the OMNI is the only component that provides multi-generational guarantees

3000E/6000E Flow Computer

OMNI FLOW COMPUTERS —
The fiscal metering information
backbone of the world's largest
pipelines and terminals.

Omni®

3000E/6000E
OMNI FLOW COMPUTER

Decades of metering experience, verifiable factory programming, and traceable field configurability make OMNI flow computers the better choice. The new 3000E/6000E flow computer enhancement offers improved security, enhanced software capabilities, and improved auditing and alarm functionality.

Your flow computer has an important job. Whether it is being used for custody transfer, allocation, royalty, pipeline, ship loading, utilities, or LACT-compliance, even a slight discrepancy can cost you hundreds of thousands of dollars—not to mention uncountable man-hours.

As the most recognizable manufacturer of flow computers in the world, OMNI Flow Computers is known for its commitment to long-term support and backwards-compatible product developments.

With its fast one second power-up recovery, field proven reliability, longevity, and usability, OMNI has the lowest cost of ownership in the

business. The OMNI exceeds all requirements for data processing, accuracy, and calculation cycle time for all recognized standards bodies, including API, ISO, OIML, and AGA.

The 3000E/6000E Series of flow computers represents the most significant enhancement to the OMNI flow computer family since its original release in 1991.

OMNI flow computers are configurable, but not programmable. This means you can be sure the OMNI is being used in the field without modification. Programmable flow computers can introduce the risk of modification of WELMEC-approved software code without traceability. With OMNI, you can be sure there hasn't been a programming modification to the factory firmware code.

3000E/6000E Product Enhancements

Improved Security
Enhanced security features mean tighter control over how both personnel and third-party systems can access the flow computer.
- Up to 16 individual users, with individual login and password
- Different permission rights for each user

Improved Auditing and Alarm Functionality
The enhanced system captures more complete data from all configuration changes and alarms, including date and time stamps, origin, and totals at the time of the change or alarm.
- Up to 1000 alarm events
- Full auditing
- Configuration check-sum to monitor configuration changes

Enhanced Features
- Twice as many liquid products
- Twice as many Boolean and Variable statements

Enhanced Software Capabilities
OMNICOM software has been updated to accommodate the security, audit, and alarm firmware updates. It also incorporates time-saving features that allow direct-paste functionality of registers, eliminating the need for a manual.

OMNICOM Software
OMNICOM is the flexible, user-friendly, Windows-based software that simplifies operationconfiguration of your OMNI flow computers. With on and offline capabilities, OMNICOM allows you to monitor quality, track diagnostics, and configure the flow computers without disrupting operations. OMNICOM offers customizable reports and multiple-site access. It is all you need to manage your OMNI flow computers.

www.omni.nt-rt.ru || ons@nt-rt.ru