ENERGY & POWER TECHNOLOGIES

Streamline Smart Meter Safety & Performance Testing

Global Access Partner for the Meter Market

As power grids continue to evolve, they offer utilities and consumers the ability to better control and monitor use and are becoming increasingly important. Connected devices are offering greater control in various industries and smart meters are bringing the benefits of the Internet of Things (IoT) to electricity management.

Gain access to the world's markets with safety and performance testing of smart meters to the requirements of the United States, Asia, Australia, Europe and South Africa. UL has extensive experience in smart-meter testing and has earned significant accreditations, including acceptance into the National Voluntary Laboratory Accreditation Program (NVLAP), the National Institute of Standards and Technology (NIST) program (U.S.), International Accreditation Service (IAS), the Australian Government National Measurement Institute (NMI) and Singapore Accreditation Council (SAC). UL is deeply involved with the creation of new standards for smart-meter technology and actively contributes to smart-meter panels globally. Our goal is to help bring safer meters that are optimized for performance to market quickly, easily and efficiently.

Safety Testing for Meters

UL offers safety testing of electricity, water and gas meters to ensure they meet Accuracy Class Performance as well as Shock, Fire, Water Purity and Hazardous Location use requirements. Along with these services, we also offer EMC evaluation for traditional Emissions and Immunity along with Intentional Transmitters (Cellular, WiFi, ZigBee, Bluetooth, etc.).

UL empower trusts through safety science, and in fact created the first smart meter safety standard in the industry (UL 2735). We have since built on that success by working with industry to begin development of UL 2735C for Canada, and gaining international accreditation for IEC 62052-31. UL is committed to working with manufacturers for testing and certification that helps make metering products safer.

Performance Testing for Meters

UL offers customized performance test programs in evaluating meters and their smart features – such as electronic measuring, wireless or remote reporting, and appliance controls. This will help your R&D team minimize failures and retests during design. We also offer standards and lab training for manufacturers, users, and integrators of smart meters around the globe. UL's reputation, experience, knowledge and brand name have been recognized and trusted worldwide by manufacturers, retailers, code officials and consumers.

For more information, please visit ul.com/meters or email: smart.meter@ul.com

Summary List of UL Services for Electronic Meters (Solid State)

Market	NA	Mexico	LA	EU	ME	AS/NZ	India	Asia
Safety	UL2735 & UL2735C	NOM	-	IEC 62052-31	IEC 62052-31	IEC 62052-31	IEC 62052-31	IEC 62052-31
Performance/ Accuracy Electricity Meters	ANSI C12.1 C12.10 C12.20	G0100-05 GWH00-09	NBR 14519 14520	EN 50470-1 EN 50470-3 EN/IEC 62052-11 62053-21 62053-22 62053-23 62053-24 OIML R46	IEC 62052-11 62053-21 62053-22 62053-23 62053-24 OIML R46	AS/NZ 62052.11 62053.21 62053.22 62053.23 62053.24 NMI M6-1 OIML R46	IS13779 IS14697 IS15959 IEC 62052-11 62053-21	IEC 62052-11 62053-21 62053-22 62053-23 62053-24 BREB J-39 OIML R46
Performance/ Accuracy Load Control/ Prepayment Meters	-	-	-	EN/IEC 62052-21 62054-21 62055-31	IEC 62052-21 62054-21 62055-31	AS/NZ 62052.21 62054.21 62055.31	-	IEC 62052-21 62054-21 62055-31
Inter-operability	ANSI C12.18 C12.19	-	-	DLMS COSEM	DLMS COSEM	DLMS COSEM	DLMS COSEM	DLMS COSEM
Security	UL2900 IEC 62443	IEC 62443	IEC 62443	UL2900 IEC 62443	-	-	-	IEC 62443
Wireless	FCC IC WiFi ZigBee	COFETEL	CNC ANATEL	R&TTE	FCC R&TTE	FCC R&TTE	-	MIC SRRC KCC FCC R&TTE

Why choose UL?

UL drives global research and standards to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL's global network of technical experts and state-of-the-art facilities, along with our longstanding relationships with regulatory authorities, partner laboratories and industry technical leaders, helps manufacturers gain the compliance credentials they need to compete in a more complex global supply chain.

Knowledge You Can Trust – our experienced staff will advise you from the initial design stage of product development through testing and production. Our experts can assist you in understanding the certification requirements for your specific markets.

Speed & Efficiency – our cost-effective systems and state-of-the-art facilities cut through the red tape and help accelerate your time to market.

Single Source Provider – UL meets all of your compliance needs and, by bundling safety, performance and interoperability services, also helps save you valuable time and money.

Global Reach & Access – our global network of expert engineers helps you understand the various national and global requirements for your specific market application.

For more information, please visit ul.com/meters or email: smart.meter@ul.com

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