

Leaflet

High-Speed Data Acquisition Unit SL2000

Industries: xEV&Transportation, Industrial Machine, Home Appliances, Motors&Drives

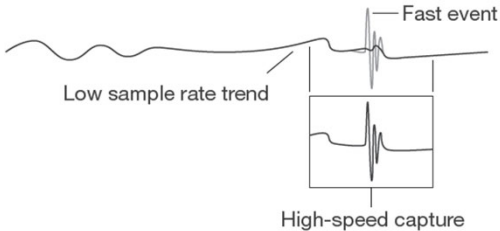
A digitizer optimized for high-voltage measurements up to a maximum input voltage of 1000V.

Features

- Isolated measurements with a maximum input voltage of 1000 V, 14-bit resolution, and 200 MS/s sampling.
Continuous recording: 20 s at 200 MS/s (2 channels), 2 s (16 channels)
- Simultaneous measurement of voltage and current, plus temperature, vibration, strain, frequency, and CAN / CAN FD / LIN / SENT.
- Instrument control, recording, and analysis using the integrated measurement software IS8000.

Featured Functions: Dual Capture

- A function that enables simultaneous long-term trend monitoring and capture of transient events in durability testing by performing low-speed data logging alongside independent high-speed sampling.



- Remote control of the SL2000 via a web browser.
- Instrument control via communication commands (C++, VB.NET, Python, etc.)



High-Speed Data Acquisition Unit SL2000

Basic Configuration

SL2000

Model	Description	Qty.
SL2000-D-HJ	SL2000 High-Speed Data Acquisition Unit, 1 G Point memory Includes one license of IS8002	1
/P4	Four probe power outputs	

Plug-in Module

Model	Description	Qty.
720212	High-speed 200 MS/s 14 Bit Isolation Module 	1

Accessories

Model	Description	Qty.
702902	10:1 Passive Probe (for isolated BNC) 	1
701933	Current Probe (DC to 50MHz, 30Arms) 	1

LF_SL1000_to_SL2000_Replacement-01EN
Rev.1 July 16, 2026

Specification Comparison

Key Specifications	SL1000 (introduced in 2007)	SL2000 (introduced in 2025)
		
Sample rate	Up to 100 MS/s (using the 720211)	Up to 200 MS/s (using the 720212)
Record time	100 MS/s 2 CH: 0.32 s, 16 CH: 0.04 s	200 MS/s 2 CH: 20 s, 16 CH: 2 s
Independent sample rate	Up to four different sample rates	Sample rate configurable per channel
Maximum Record length	1 module: 50 MW/CH (single trigger mode)	4 G points/2 CH (/M2 option)
Maximum Input channels (Standalone)	16 CH	32 CH (using the 4 CH module) 128 CH (using the 16 CH module)
Multi-Unit Synchronization	Up to 8 (Synchronous connecting cable)	Up to 5 (Optical fiber, /C50 option)
Computer Interface	USB2.0, Ethernet (/C10 option)	USB3.0, Ethernet, 10 GbE (/C60 option)
Data Storage	500 GB HDD (/HD1 option) Network drive	512 GB SSD (/ST1 option) SDXC, USB storage (8 TB Max.), Network drive
Dual Capture Function	Not supported	Supported (Standard)
Math Function	Not supported	Standard: Automated measurement of waveform parameters & Statistical processing, FFT, Waveform math Option: User-defined math, Real time math, Power math, Motor dq analysis
Serial bus analysis	Not supported	CAN / CAN FD / LIN / SENT
Probe power	4 outputs (/P4 option)	8 outputs (/P8 option), 4 outputs (/P4 option)
Software	SL1000 Acquisition Software Xviewer/XviewerEYE	IS8000/IS8000 FS1 (High-speed camera Sync.), IS8002CDV (Viewer) * IS8000 support synchronization with power analyzer and oscilloscope.
API control	SL1000 Control API	ScopeCorder SDK, TMCTL (API/Communication control, Free Software)
Control via Web browser	Not supported	Supported (Standard)
FTP function	Supported (Server function only)	Supported (Standard)

Important: Supported modules that can be installed

Some input modules can be used with the SL1000 but are not supported by the SL2000. Please note this limitation.



	720210 High-speed 100MS/s 12 Bit Isolation Module	720211 High-speed 100MS/s 12 Bit Isolation Module	701267 High-voltage 100kS/s 16 Bit Isolation Module (with RMS)	720268 High-voltage 1MS/s 16 Bit Isolation Module (with AAF, RMS)
SL1000	Yes	Yes	Yes	Yes
SL2000	No	Yes	No	Yes

Compatible Plug-in Modules

Model	Description	Remark	SL1000	SL2000
720212	High-speed 200MS/s 14 Bit Isolation Module		No	Yes
720210	High-speed 100MS/s 12 Bit Isolation Module	Disc.	Yes	No
720211	High-speed 100MS/s 12 Bit Isolation Module		Yes	Yes ^{*1}
701250	High-speed 10MS/s 12 Bit Isolation Module	Disc.	Yes ^{*2}	Yes ^{*2}
720250	High-speed 10MS/s 12 Bit Isolation Module		Yes	Yes
701251	High-speed 1MS/s 16 Bit Isolation Module		Yes	Yes
720252	1MS/s 16 Bit Isolation Module (Offset Adjust)		No	Yes
720256	4 CH 10MS/s 16 Bit Isolation Module		No	Yes
720254	4 CH 1MS/s 16 Bit Isolation Module		No	Yes ^{*3}
701255	High-speed 10MS/s 12 Bit Non-Isolation Module		Yes ^{*2}	Yes ^{*2}
701267	High-voltage 100kS/s 16 Bit Isolation Module (with RMS)	Disc.	Yes	No
720268	High-voltage 1MS/s 16 Bit Isolation Module (with AAF, RMS)		Yes	Yes
720220	16CH Voltage Input Module		No	Yes
720301	Power measurement 1MS/s 16 Bit Isolation Module		No	Yes ^{*4}

• Disc.: Discontinued

• Green colored module 720210 and 701267 cannot be used in the SL2000.

*1: If 720211 is shipped before July 2023 and inserted into the SL2000, the SL2000 will not comply with CE marking (EMC).

*2: Some modules shipped between August 2006 and July 2007 may not be usable. For details, please contact us.

*3: If 720254 is shipped before June 2025 and inserted into the SL2000, the SL2000 will not comply with CE marking (EMC).

*4: To perform calculations for RMS values or power values with guaranteed accuracy, the /G05 or /MT1 option is required.

*5: The use of a 720221 module requires an External Scanner Box (model 701953).

*6: The /VCE option is required

Model	Description	Remark	SL1000	SL2000
701261	Universal Module		Yes	Yes
701262	Universal Module (with AAF)		Yes	Yes
701265	Temperature/High-Precision Voltage Module		Yes	Yes
720266	Temperature/High-Precision Voltage Isolation Module (Low Noise)		Yes	Yes
720221	16 CH Temperature/Voltage Input Module ^{*5}		No	Yes
701270	Strain Module (NDIS)		Yes	Yes
701271	Strain Module (DSUB, Shunt-CAL)		Yes	Yes
701275	Acceleration/Voltage Module (with AAF)		Yes	Yes
701281	Frequency Module	Disc.	Yes	Yes
720281	Frequency Module		Yes	Yes
720230	Logic Input Module		No	Yes
720240	CAN Bus Monitor Module	Disc.	No	Yes ^{*6}
720245	CAN FD/LIN Monitor Module		No	Yes ^{*6}
720242	CAN/CAN FD Monitor Module	Disc.	No	Yes ^{*6}
720241	CAN & LIN Bus Monitor Module	Disc.	No	Yes ^{*6}
720243	SENT Monitor Module		No	Yes ^{*6}

Thurlby Thandar Instrument Distribution
 Glebe Road, Huntingdon, PE29 7DR, UK
+44 (0)1480 412 451
sales@ttid.co.uk
www.ttid.co.uk