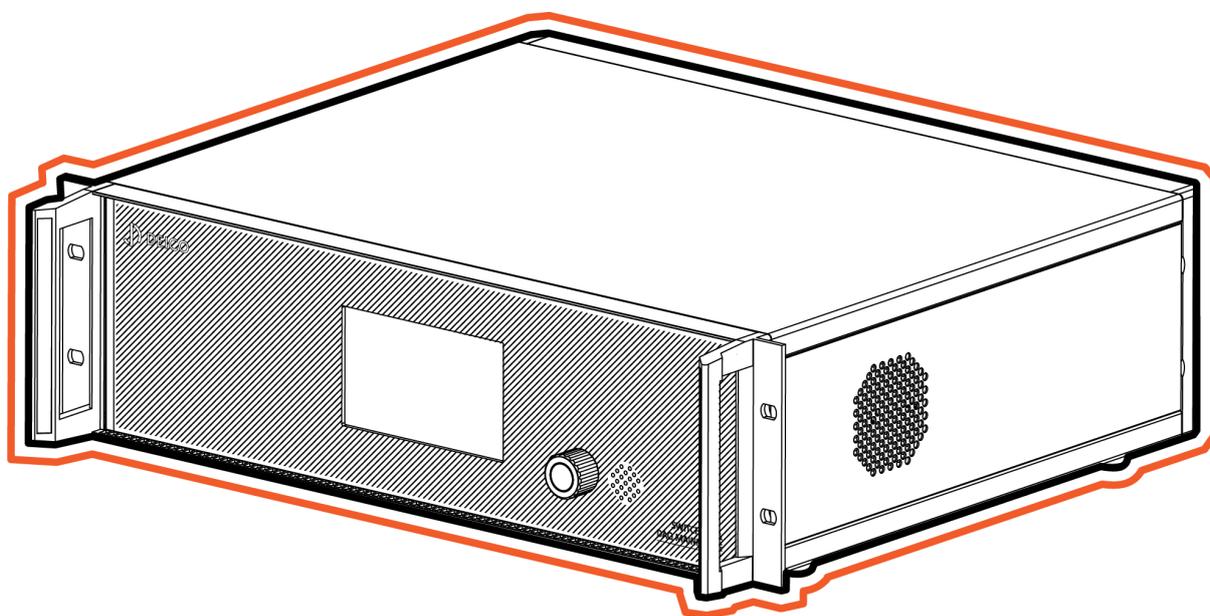


DE2000 DATASHEET

SWITCHING AND DAQ MAINFRAME 8 SLOT



 **DEICO**

Contents

DESCRIPTION	1
Key Features	1
HARDWARE OVERVIEW	1
Functional Block Diagram	1
Hardware Specifications	2
Electrical	2
Physical	3
Environmental	3
SIGNAL CONNECTIONS	3
Analog Bus Connector	4
CONFIGURATION	4
SAFETY GUIDELINES	5
COMPATIBILITY GUIDELINES	5
SUPPORTING PRODUCTS & SOFTWARE	5

DESCRIPTION

Switching and DAQ Mainframe 8 Slot is an 8-slot mainframe for related modules. This device allows user to control any related module through Ethernet, USB interface or touch screen. DE2000 contains 6.5 digit DMM. Voltage, current, 2-wire resistance, 4-wire resistance and frequency measurements can be obtained with multiplexer modules.

The general features of Switching and DAQ Mainframe 8 Slot are listed below.

Key Features

- ⇒ Ethernet interface
- ⇒ USB interface
- ⇒ DMM measurements

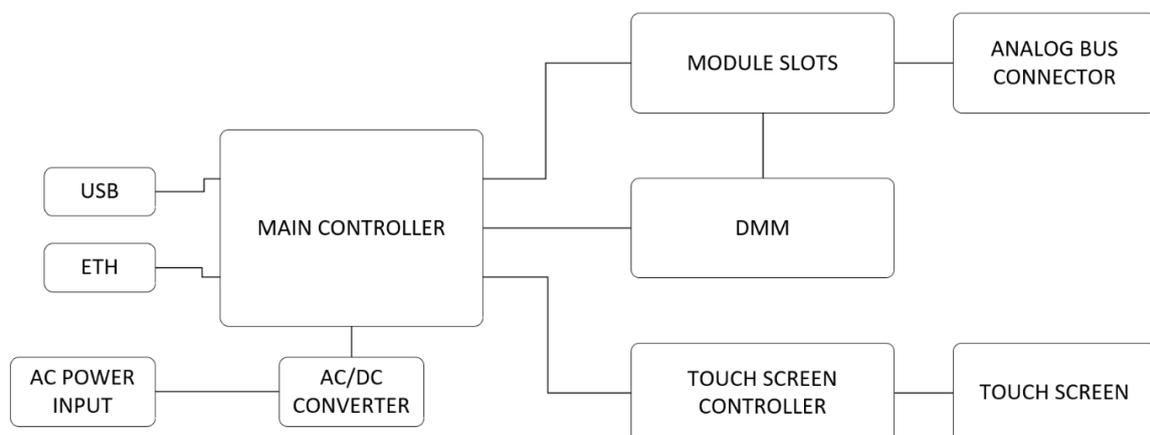
DE2000 is compatible with *IEC 60068-2-1 / IEC 60068-2-2 / IEC 60068-2-78 / IEC 60068-2-27 / IEC 60068-2-64 / EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11 / FCC 47 CFR Part 15B / ICES-001* standards.

Areas of application include:

- ⇒ LAB Usage
- ⇒ Modular Test Systems
- ⇒ Automated Test Equipment

HARDWARE OVERVIEW

Functional Block Diagram



Mainframe Block Diagram

Hardware Specifications

Electrical

Specification	Min	Typical	Max	Notes
Input Voltage	170VAC	220VAC	264VAC	-
Input Voltage Frequency	47Hz	50Hz	63Hz	-
Input Current	-	-	4A @115VAC 2A @230VAC	-
Ethernet Interface	-	-	1Gbps	-
USB Data Rate	-	-	480Mbps	-
Default IP Adress	-	192.168.1.2	-	Device is getting this address after LAN reset.

Internal Digital Multimeter (DMM) Specifications

Specification	Description	Notes
Functions	DCV	
	ACV	
	DCI	
	ACI	
	2WR and 4WR	
	Frequency Period Temperature	
Resolution	6.5 digits	
Linearity	0.4ppm	
Input Impedance	1MΩ ±2%	
Input Bias Current	<30pA	at 23°C, typical
Input Coupling	DC/AC	
Input Protection	300 VDC or VAC _{rms} 1.5A 300 VAC Fuse	
Measurements		
Voltage Measurement		
DC Ranges	100mV, 1V, 10V, 100V, 300V	
AC Ranges (RMS)	100mV, 1V, 10V, 100V, 300V	
Input Frequency Ranges (ACV)	3Hz to 300 kHz	
Current Measurement		
DC Ranges	10mA, 100mA, 1A	
AC Ranges (RMS)	10mA, 100mA, 1A	
Shunt Resistance	5 Ω for 10 mA; 0.1Ω for 100 mA, 1A 5 Ω for 10 mA, 100 mA; 0.1Ω for 1A	
Input Frequency Ranges (ACI)	3Hz to 5kHz	
Resistance Measurement		
Ranges	100Ω, 1kΩ, 10kΩ, 100kΩ, 1MΩ, 10MΩ	

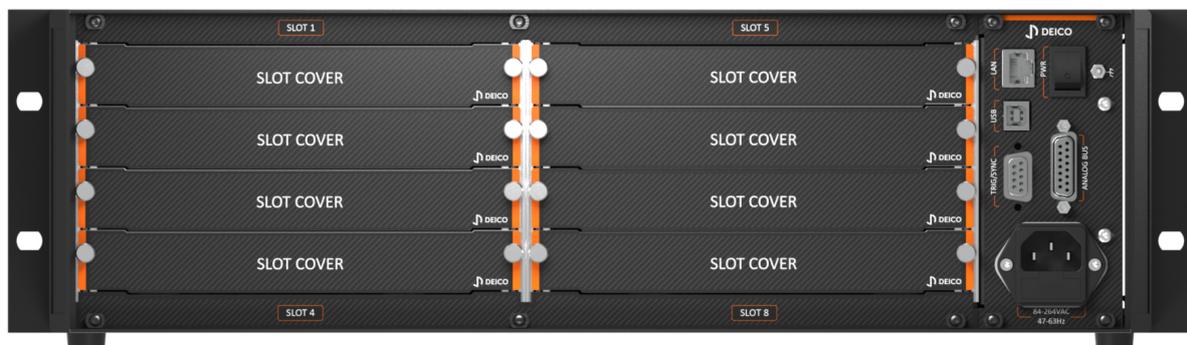
Physical

Specification	Description
Dimensions (L/W)	413.7mm x 482.6mm
Height (H)	139.7mm
Analog Bus Connector	AMPHENOL DSUB15: LD15S24A4GV00LF

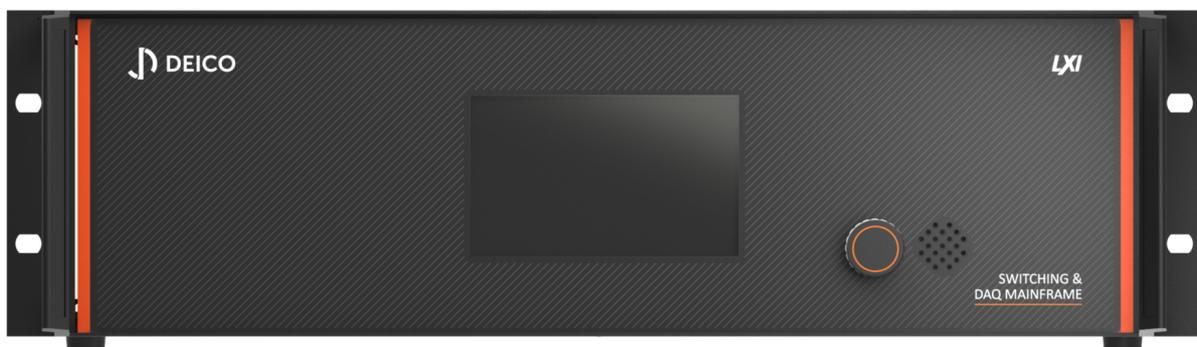
Environmental

Specification	Condition	Value
Operating Humidity	Relative, non-condensing	10% - 90%
Storage Humidity	Relative, non-condensing	5% - 95%
Operating Temperature	Forced-air cooling from chassis	0°C - 55°C
Storage Temperature	-	-40°C - 71°C

SIGNAL CONNECTIONS



DE2000 Connector Interface



DE2000 Touch Screen

Analog Bus Connector

Analog bus interface is carried to outside with the standard DSUB15 (AMPHENOL PN: LD15S24A4GV00LF) connector. Mating connector can be selected among any 2 row DSUB15 male connector.

Analog Bus Connector Pinout

Pin	Pin Description
1	ABUS2_H
2	ABUS2_L
3	GND
4	ABUS4_H
5	ABUS4_L
6	GND
7	CBUS_H
8	CBUS_L
9	GND
10	ABUS1_H
11	ABUS1_L
12	GND
13	ABUS3_H
14	ABUS3_L
15	GND

CONFIGURATION

DE2000 can only operate with related modules. The modules are installed by sliding them into the DE2001.



DE2000 and a Related Module Configuration

SAFETY GUIDELINES



Caution Do not operate the DE2000 in a manner not specified in this document. Product misuse can result in a hazard. You can compromise the safety protection built into the product if the product is damaged in any way. If the product is damaged, return it for repair.

COMPATIBILITY GUIDELINES

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC). These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, if the product is connected to a peripheral device or test object, or if the product is used in residential or commercial areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions specified in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by DEICO could void your authority to operate it under your local regulatory rules.



Caution To ensure the specified EMC performance, operate this product only with shielded cables and accessories.

Caution To ensure the specified EMC performance, the length of any cable attached to front connectors must not be longer than 3 m (10 ft.)

SUPPORTING PRODUCTS & SOFTWARE

DE2000 is used with related modules. Single usage (without a module) is not possible.



Contact

DEICO Head Office

Teknopark Ankara, Serhat Mah.,
2224 Cad., No:1 F Blok, Z-12,
Yenimahalle, Ankara, Türkiye

support@deico.com.tr

+90 312 395 68 44



www.deico.com.tr