

Interface with Lab View Driver

Made in Europe 

IEEE 488.2
IEC 625
RS 232
RS 485
optical fiber

IEEE488.2 / RS 232 / RS 485 / optical fiber

Series INT 2: Stand alone unit, expansion with max. 8 Moduls
(max. 18 analog output 36 analog input
or 72 digital inputs and outputs)

Series INT2E: 19" Euro-Card, to fit inside the devices
(2 analog outputs 4 analog inputs
8 digital inputs and outputs)

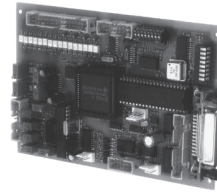
Isolated BUS-signals and analog signals

Isolation between digital signals

SCPI programmable (IEC625-2)

Programming of analog signals with absolute values

Easy expansion by inserting additional modules



TECHNICAL DATA:

Operating temperature
Dimensions

0 – +35° C
INT2E: Euro-Card
INT2: 19", depth 280 mm
1 U for 4 Moduls
2 U for max. 8 Moduls

Indication:

LED yellow
LED red
LED green

status signals:
addressed
error
operation

INT 2 ↔ Controller IEEE488.2 Interface

Connector

24-pole IEEE488 female plug,
receptacle IEC 625-1
IEC 625-2/SCPI

Interface functions

SH1 Source Handshake
AH1 Acceptor Handshake
T6 Talker
L4 Listener
SR1 Service Request
PP1 Parallel Poll
DC1 Device Clear
DT0 Device Trigger
(200 μs Trigger pulse)
E2 Tri-State-Logic

RS232-Interface

Connector
Handshake

9 pole Sub D Connector
RTS/CTS and Xon/Xoff

RS485-Interface

Connector

9 pole Sub D female plug

INT 2 ↔ Main Unit

INT2:

Connector digital signals
Connector analog signals

37 pole Sub D female plug
15 pole Sub D female plug

INT2E:

Connector digital signals
Connector analog signals

34 pole connector to DIN 41651
16 pole connector to DIN 41651

Analog output

2 x analog output
Output voltage DC
Resolution
Non-linearity

0 – 10 V
12 Bit
< 1LSB

Analog input

4 x analog input
Input voltage DC
Resolution
Non-linearity

0 – 10 V
12 Bit
< 1LSB

Digital output

8 x digital output
Output
 U_C
 I_C
 $V_{OL} I_C = 50 \text{ mA}$

open collector
max. 100 V
max. 50 mA
max. 1.2 V

Digital Input

8 x digital input
 I_E
 U_E

max. 3 mA
5 – 30 V

Main Unit

Connection

2 analog output
4 analog input
8 digital output
8 digital input

Expansion

max. 8 modules, digital or analog

Analog module

2 analog output
4 analog input

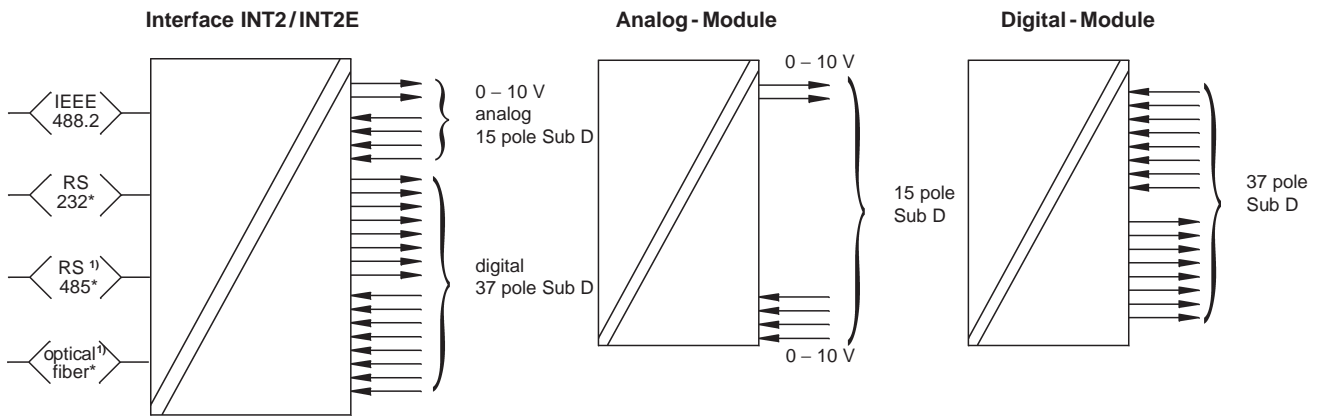
Digital module

8 digital output
8 digital input

Model Number
Stand alone unit INT2
Digital Module DM
Analog Module AM
Euro Card INT2E

SERIES INT2 Stand alone unit
 MAX. EXPANDABLE: 8 Modules
 - add variable analog- and digital modules
 - easy application by configuration

SERIES INT2E Euro Card to fit inside in the following units of Zentro
 Chapter: Units for laboratory and test
 Laboratory power supplies Series LA, LD
 Electronic DC Load Series ELD, ELA and Series EL



* chooses RS232 or RS485 or optical fiber
 ¹) not at INT2E

Lab-View-Drivers for devices wit integrated INT2 Interface Card.

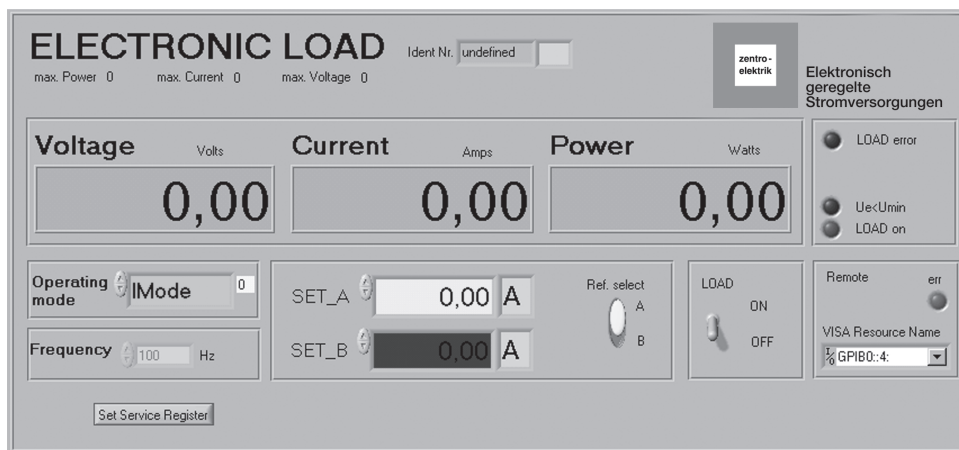
Available drivers for:
 Series EL
 Series ELA
 Series LD
 Series ZPS
 Series ELD*

Components of the LAB-View-Drivers:
 All virtuell instruments (VI) needed for using Lab-View to control the devices.

Operating System required: Windows 95/98/2000/NT

Software required:
 National Instruments LAb-View
 National Instruments NI-VISA-Driver

* command frequency not supported



Example: Test programm to control all functions of an Electronic Load