SLICE PRO USB Controller

Use and Operation

The SLICE PRO USB Controller is a communications and signal interface for a SLICE PRO system. It supports up to 4 SLICE PRO modules (SIM, TOM, DIM, etc.) and is rated for 100 g, 12 ms half-sine duration, in all axes. It contains an internal battery sufficient to provide primary power for up to 1 hour and supports primary system input power via a dedicated power input connector. (If input power fails, each module in the system will transition to its own internal battery—the USB Controller will *not* power the entire system.) It does not support daisy-chaining with other systems.

Power-up of a SLICE PRO USB system takes 10 seconds, after which communication is enabled. To restart, turn off the system and wait ~30 seconds before reinitializing. If a system is armed for data collection, it will remain on until it is disarmed or power reserves are exhausted. An incomplete power-down/power-up cycle can result in errors, so be certain to follow proper procedures.

CAUTION:

Do not turn off the USB Controller if the system is armed. You must disarm the system before initiating a system restart.

The SLICE PRO USB Controller is supplied with calibration data from the factory. DTS recommends annual recalibration to ensure that the unit is performing within factory specifications. The SLICE PRO USB Controller is not user-serviceable and should be returned to the factory for service or repair.

SLICE PRO systems are low power devices with negligible self-heating and it is unlikely that self-heating will be an issue in real-world testing. Should you have any questions about using SLICE PRO in your environment, please contact DTS.

WARNING:

Due to battery chemistry, do not operate SLICE PRO DAS at temperatures below 0°C (32°F) or in excess of 60°C (140°F).

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PWR pushbutton switch
- momentary; press and hold for 2 sec
- cycles power ON/OFF

USB communications
- PC to SLICE PRO system
- uses standard USB A-B cable
- PC must be connected directly—do not use a hub or other extender

START pushbutton switch
- momentary; sends start record signal to system

STS LED (green or OFF)
- = system is recording data

15V IN power input connector
- 14.6-18 VDC; 1 A minimum per attached module*

AUX connector
- supports status output, start, and event input signals

EVENT pushbutton switch
- momentary; sends event signal to system

PWR LED (green, red or OFF)
- = system is ON
- = input power correct

* A minimum of 500 mA per module is needed to charge the internal back-up batteries of attached modules. (Controllers are considered modules for the purposes of power calculations.) Be sure to consider any power drop due to cable length.

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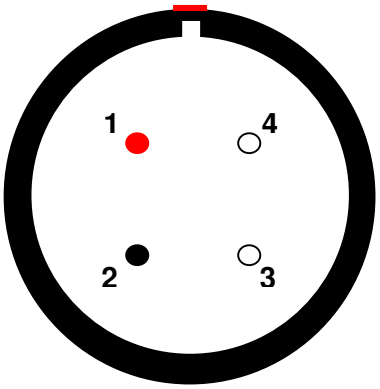
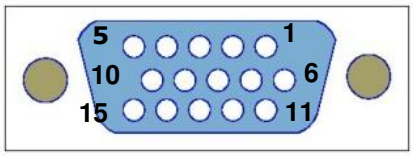
15V IN
LEMO P/N EEG.2B.304.CLL



(panel view)

Pin	Function
1	+VDC input
2	- VDC input/Ground
3, 4	Ground

AUX
DB15F HD



(panel view)

Pin	Function
1	/START, CC to ground
2	Status output (3.4 V at 2.5 mA referenced to ground)
3	/EVENT, CC to ground
4, 5	No connection
6, 7, 8	Ground
9-15	No connection

DOWN
(Omnetics A98000-015; MMDP-015-N00-SS)

(panel view)

Pin	Function
1	12.6 VDC out
2	12.6 VDC out
3	Ground
4	Ground
5	/ON, CC input to ground
6	/EVENT, CC input to ground
7	/START, CC input to ground
8	Status input (5 V via 10k with respect to ground)

Pin	Function
9	12.6 VDC out
10	12.6 VDC out
11	Ground
12	Ground
13	USB_DP
14	USB_DM
15	USB power

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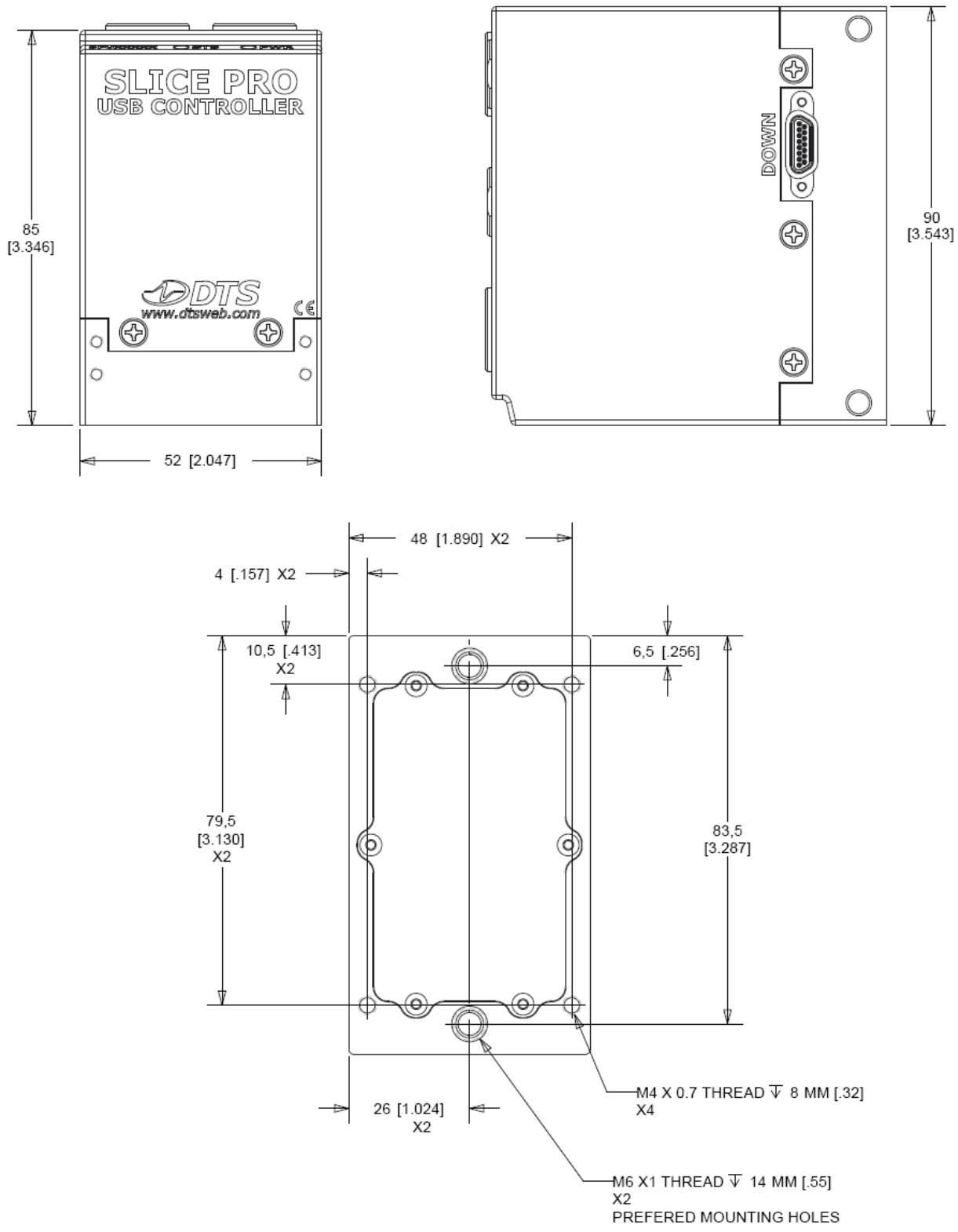

Units in mm (inches)

Weight: 454 g (16 oz)

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DECLARATION OF CE CONFORMITY

Description	Model
Data Acquisition Module	SLICE PRO Sensor Input Module
Data Acquisition Module	SLICE PRO Timed Output Module
Data Acquisition Module	SLICE PRO Digital Input Module
Data Acquisition Module	SLICE PRO Trigger Distributor
Data Acquisition Module	SLICE PRO Ethernet Controller
Data Acquisition Module	SLICE PRO USB Controller
Distribution Unit	SLICE Mini Distributor

The undersigned hereby declares that the products listed above, manufactured by DTS, Inc., Seal Beach, California, USA, conform to the following directive and standards:

Applicable Council Directive: **89/336/EEC – Electromagnetic Compatibility**

Applicable Harmonized Standards: **EN 55022:1998, EN 55024:1998**

Stephen Pruitt, President
DTS, Inc.

February 10, 2015
Date