



## Type Examination Certificate

- (1)  
(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) Type Examination Certificate number:

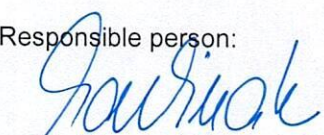
**FTZÚ 21 ATEX 0040X**

- (4) Product: **Vibration analyser A4300 PRO EX**
- (5) Manufacturer: **Adash s.r.o.**
- (6) Address: **Hlubinská 1379/32, 702 00 Ostrava – Moravská Ostrava, Czech Republic**
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.
- The examination and test results are recorded in confidential Report number:  
**21/0040 dated 24.10.2022**
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-28:2015**
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
- (11) This type examination certificate relates only to the design of the specified product and not to specific items of equipment subsequently manufactured.
- (12) The marking of the product shall include the following:

 **II 3G Ex ic op is IIC T3 Gc**

This certificate is valid till: **31.10.2027**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



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**Type Examination Certificate No. FTZÚ 21 ATEX 0040X**

(15) Description of Product:

The product is three channel handheld vibration analyser with display. The product is powered by two Li-Ion cells. The enclosure of product consists of aluminium profile without surface treatment. On the surface of product enclosure are blue antistatic stickers and keyboard. On the front side of product enclosure are three connectors for connection of sensors, IR sensor, USB connector and LED's. On the bottom side of enclosure is charging connector.

Technical parameters:

Ambient temperature: from -10°C to +50°C  
from 0°C to +35°C for charging  
Charging connector: Um = 250 V AC  
USB connector: Um = 6V  
Input connector IN1: Uo = 25.2 V; Io = 58 mA; Lo = 60 µH; Co = 100 nF  
Input connector IN2: Uo = 25.2 V; Io = 58 mA; Lo = 60 µH; Co = 100 nF  
Input connector TRIG: Uo = 6 V; Io = 425 mA; Lo = 100 µH; Co = 10 µF

(16) Report Number: 21/0040

(17) Specific Conditions of Use:

1. The product shall be charged only outside Ex area. The ambient temperature during charging shall be in range 0°C to +35°C.
2. The USB connector shall be used only outside Ex area. The connected product shall be in accordance with standard IEC 60950 or IEC 61010-1.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

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Dipl. Ing. Lukáš Martinák  
Head of Certification Body



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(14) **Type Examination Certificate No. FTZÚ 21 ATEX 0040X**

(19) Drawings and Documents:

| Number       | Sheets | Issue | Date       | Description                     |
|--------------|--------|-------|------------|---------------------------------|
| A4300 PRO EX | 69     | --    | 12.09.2022 | Technical documentation         |
| --           | 98     | 1.9   | 19.07.2021 | User's manual                   |
| 18.0         | 4      | --    | 22.08.2022 | Labels                          |
| 2.0          | 1      | 1.0   | 05.09.2022 | Block diagram                   |
| 12.0         | 1      | --    | 29.07.2022 | PCB stack drawing               |
| 3.0          | 1      | 1.0   | 29.07.2022 | Schematic diagram               |
| 3.1          | 1      | 1.0   | 29.07.2022 | BOM of display                  |
| 3.2          | 1      | --    | 05.08.2022 | Isolation of backlight          |
| 3.3          | 1      | --    | 14.08.2022 | Encapsulation of display        |
| 4.0          | 1      | 1.0   | 15.08.2022 | Schematic diagram of flash disc |
| 4.1          | 1      | --    | 15.08.2022 | BOM of flash drive              |
| 4.2          | 1      | --    | 14.08.2022 | Encapsulation of flash drive    |
| 6.0          | 2      | 1.0   | 09.08.2022 | Schematic diagram of ADSP       |
| 6.1          | 1      | 1.0   | 27.07.2022 | PCB ADSP layout TOP             |
| 6.2          | 1      | 1.0   | 09.09.2022 | PCB ADSP layout IN2             |
| 6.3          | 1      | 1.0   | 09.09.2022 | PCB ADSP layout IN3             |
| 6.4          | 1      | 1.0   | 09.09.2022 | PCB ADSP layout BOT             |
| 6.5          | 1      | 1.0   | 27.07.2022 | PCB ADSP parts placement TOP    |
| 6.6          | 1      | 1.0   | 27.07.2022 | PCB ADSP parts placement BOT    |
| 6.7          | 6      | 1.0   | 03.08.2022 | BOM of ADSP PCB                 |
| 6.8          | 1      | --    | 14.08.2022 | Encapsulation of ADSP           |
| 7.0          | 1      | 1.1   | 29.07.2022 | Schematic diagram of COMP PCB   |
| 7.1          | 1      | 1.1   | 27.07.2022 | PCB COMP layout TOP             |
| 7.2          | 1      | 1.1   | 27.07.2022 | PCB COMP layout IN2             |
| 7.3          | 1      | 1.1   | 27.07.2022 | PCB COMP layout IN3             |
| 7.4          | 1      | 1.1   | 27.07.2022 | PCB COMP layout BOT             |
| 7.5          | 1      | 1.1   | 27.07.2022 | PCB COMP parts placement TOP    |
| 7.6          | 1      | 1.1   | 27.07.2022 | PCB COMP parts placement BOT    |
| 7.7          | 4      | 1.1   | 03.08.2022 | BOM of COMP PCB                 |
| 7.8          | 1      | --    | 14.08.2022 | Encapsulation of COMP           |
| 8.0          | 1      | 1.0   | 29.07.2022 | Schematic diagram of INPUT PCB  |
| 8.1          | 1      | 1.0   | 27.07.2022 | PCB COMP layout TOP             |
| 8.2          | 1      | 1.0   | 27.07.2022 | PCB COMP layout IN2             |
| 8.3          | 1      | 1.0   | 27.07.2022 | PCB COMP layout IN3             |
| 8.4          | 1      | 1.0   | 27.07.2022 | PCB COMP layout BOT             |
| 8.5          | 1      | 1.0   | 27.07.2022 | PCB COMP parts placement TOP    |

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Head of Certification Body



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(14) **Type Examination Certificate No. FTZÚ 21 ATEX 0040X**

(19) Drawings and Documents: - continuation

| Number | Sheets | Issue | Date       | Description                    |
|--------|--------|-------|------------|--------------------------------|
| 8.6    | 1      | 1.0   | 27.07.2022 | PCB COMP parts placement BOT   |
| 8.7    | 1      | --    | 03.08.2022 | BOM of COMP PCB                |
| 9.0    | 1      | 1.4   | 25.04.2016 | Schematic diagram of USB PCB   |
| 9.1    | 1      | 1.4   | 27.07.2022 | PCB USB layout TOP             |
| 9.2    | 1      | 1.4   | 27.07.2022 | PCB USB layout BOT             |
| 9.3    | 1      | 1.4   | 27.07.2022 | PCB USB parts placement TOP    |
| 9.4    | 1      | 1.4   | 02.08.2022 | BOM of USB PCB                 |
| 10.0   | 1      | 1.2   | 09.08.2022 | Schematic diagram of BP PCB    |
| 10.1   | 1      | 1.2   | 27.07.2022 | PCB BP layout TOP              |
| 10.2   | 1      | 1.2   | 27.07.2022 | PCB BP layout IN2              |
| 10.3   | 1      | 1.2   | 27.07.2022 | PCB BP layout IN3              |
| 10.4   | 1      | 1.2   | 27.07.2022 | PCB BP layout BOT              |
| 10.5   | 1      | 1.2   | 27.07.2022 | PCB BP parts placement TOP     |
| 10.6   | 1      | 1.2   | 27.07.2022 | PCB BP parts placement BOT     |
| 10.7   | 1      | 1.2   | 03.08.2022 | BOM of BP PCB                  |
| 10.8   | 1      | --    | 30.07.2022 | Insulation of BP               |
| 11.0   | 1      | 1.0   | 29.07.2022 | Schematic diagram of BPCON PCB |
| 11.1   | 1      | 1.0   | 27.07.2022 | PCB BPCON layout TOP           |
| 11.2   | 1      | 1.0   | 27.07.2022 | PCB BPCON parts placement TOP  |
| 11.3   | 1      | 1.0   | 29.07.2022 | BOM of PCB BPCON               |

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