

# PRODUCT DATA

## TEDS Editor and Demonstration Adaptor Kit — UA2020 consisting of TEDS Editor BZ5294 and Demonstration Adaptor for TEDS Editor UA2019

### FEATURES

- Demonstration of:
  - Extended functionality such as gain
  - Analog measurement and digital communication
  - Reading and writing TEDS
  - Re-mapping of TEDS from one template to another
- Stores and views:
  - Identification data in the transducer\*
  - Calibration data in the transducer
  - User data in the transducer
  - Re-mapping of TEDS from one template to another†

### BENEFITS

- Calibration applications: transducer specification may be read into TEDS (license required)
- Transducer manufacturer applications: possible to read data into TEDS on location
- Demonstration of extended functionality in conjunction with Demonstration Adaptor UA2019



## Description

The TEDS Editor and Demonstration Adaptor Kit UA2020 is used to demonstrate extended functionality with Charge to DeltaTron Convertor Type 2647 and charge accelerometers.

\* Requires a licence

† The Demo Adaptor does not support programming voltages, and can therefore not be used for programming E-PROMs, but only E<sup>2</sup>-PROMs

**UA2020**

# Specifications – UA2020 TEDS Editor and Demonstration Adaptor Kit

UA 2019 Demo Adaptor for TEDS Editor

NB: Power on transducer ground

CE mark indicates compliance with: EMC Directive and Low Voltage Directive

Current Consumption (9 V Battery):

Standby Current: Typ. <0.1µA

Analog Mode: Typ. 9.5 mA

Scanning mode: Typ. 3.5 mA

## System Requirements

- Microsoft® Windows® 95 or Microsoft Windows NT® Workstation 4.0 (Service Pack 3 recommended) or later
  - 486DX/66 MHz or higher processor (Pentium or higher processor recommended), or any Alpha processor running Microsoft Windows NT Workstation
  - A CD-ROM disk drive or Internet for installation
  - VGA or higher resolution screen supported by Microsoft Windows
  - 16 MB of RAM for Windows 95, 32 MB of RAM for Windows NT Workstation
  - A mouse or other suitable pointing device
- One of the following is required to access the transducer:
- Type 2690/1/2/3 NEXUS™ Conditioning Amplifier with SW Ver. 2.0.0
  - Demo Adaptor 180605, DS9097E or DS9097U

## Analog Mode

Gain: Typ.  $\pm 0.2$  dB at 159 Hz, 250 Hz or 1 kHz

Frequency Response: 20 Hz–10 kHz,  $< \pm 3$  dB re 159 Hz, 250 Hz or 1 kHz

THD at 1 kHz Sine: Typ.  $< -50$  dB (LIN 22.4 Hz–200 kHz)

Max. Input Noise:

0 dB Gain: Typ.  $< 120$  µV rms (A-weighted)

20 dB Gain: Typ.  $< 35$  µV rms (A-weighted)

40 dB Gain: Typ.  $< 15$  µV rms (A-weighted)

Max. Input Voltage Swing: Typ. 0–15 V DC re BNC shield

Max. Output Voltage Swing: Typ.  $> \pm 6.5$  Vp re ground on jackplug,  $\approx 4.6$  V rms sine

DC Level at BNC Shield: Typ.  $-8$  V DC re ground on jackplug (jackplug ground is connected to com port ground)

Output Offset Voltage re Input: Max.  $\pm 3$  mV DC

DeltaTron Current: Typ. 4 mA (3–5 mA)

## Scanning Mode

DC Level at BNC Shield: Typ.  $+4$  V DC re ground on jackplug (jackplug ground is connected to com port ground)

Max. Capacitive Load:  $> 15$  nF

Max. Number of µLAN Devices: Min. 10 devices connected at once

## Ordering Information

### Accessories Included

BZ 5294	TEDS Editor
UA 2019	Demonstration Adaptor for TEDS Editor

### Accessories Available

Type 2690/1/2/3 NEXUS Conditioning Amplifier	
AO 1444	BNC to Falcon Range® preamplifiers, for TEDS editing
AO 1443	BNC to 3.5 mm jackplug, 1.5 m cable
DS9097E	Dallas Adaptor (not recommended, except when E-PROM programming is required)*
DS9097U	Dallas Adaptor (recommended for R/W of TEDS in general)*
RJ-11	Dallas Adaptor to BNC*
<b>Cables:</b>	
AO 0564	BNC to SMB (used for Type 4935)
JP 0145	BNC to 10–32 UNF (used for DeltaTron® accelerometers)

\*Available from Dallas Semiconductor [www.dalsemi.com](http://www.dalsemi.com)

### IEEE P1451.4 transducers available:

Type 4935	Array Microphone
Types 4507B and 4508B	Miniature Accelerometers
Type 2647	Charge to DeltaTron Converter
Type 2669	½" Microphone Preamplifier
Type 2670	¼" Microphone Preamplifier
Type 2671	DeltaTron Preamplifier

AO 0534 Cable with 4-pin Microtech to BNC connectors, 5 m (16 ft) 120°C (248°F)

AO 0536 Cable with 37-pin D-range subconnector to 2 × 4-pin Microtech, 10 m (33 ft) 85°C (185°F)

All cables are available in other lengths. The following suffixes to the Type number are used to specify the length when ordering

F: 3 m (10 ft) (AO 0526 only)

H: 10 m (33 ft) (AO 0526 only)

I: 15 m (50 ft) (AO 0526 only)

### Customer specified lengths:

AO 0526V – AC 0220–X

AO 0527V – AC 0220–X

AO 0528V – AC 0220–X

AO 0534V – AC 0223–X

AO 0536V – AC 0220–X

Where X specifies the length in metres

Brüel & Kjær reserves the right to change specifications and accessories without notice.