

dametric 

# TVD-A1



## TOUCHPOINT VIBRATION AUDIO UNIT USER MANUAL

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## 1 General

The TVD-A1 is an audio unit which generates an audible signal from a TVD transducer signal.

The input is connected between the TVD transducer (TVD-T1, TVD-T2 etc.) and the refiner basic unit, BRM-DM1.

The audible signal feeds a headset which the operator uses to detect refiner plate contacts during TDC/AGS calibration.

The unit is powered with 24VDC.

## 2 Document revision

Aug. 7, 2018/BL First release.

Oct. 1, 2018/BL Corrected connection to J3.

## 3 Article number

SKC SKC2602391

Valmet VAL0401996

## 4 Technical Specification

Valmet part no VAL0401996

Supply voltage 24 VDC,  $\pm 10\%$ .

Power consumption Nominal 0.1A, Max. 0.2A.

Signal input For transducer signal between TVD transducer and the BRM-DM1 unit.

Audio output For TVD headset, IR-HS.

Module size Height=110 mm, Width=23 mm, Depth=115 mm.

Closure Polycarbonate (30%GV), DIN-rail mounting.

Connections Plug-in screw connectors, max 2.5mm<sup>2</sup> cable areas.

## 5 Connection Diagram

### J1 Power

J1/1 +24VDC Power supply

J1/2 0V Power ground

J1/3 0V Shield for cable K-TVDS25

J1/4 0V Shield for cable to BRM-DM1

### J2 Signal input

J2/1 E+ Excitation pos. Connect cable K-TVDS25/white to this plinth.  
Connect also this plinth to BRM-DM1/J4/15.

J2/2 S+ Signal, pos. Connect cable K-TVDS25/brown to this plinth.  
Connect also this plinth to BRM-DM1/J4/16.

J2/3 S- Signal, neg. Connect cable K-TVDS25/green to this plinth.  
Connect also this plinth to BRM-DM1/J4/17.

J2/4 E- Excitation, neg. Connect cable K-TVDS25/yellow to this plinth.  
Connect also this plinth to BRM-DM1/J4/18.

The shield of the cables is connected to J1/3 and J1/4.

**J3 Audio output**

J3/1	SIG-A	Signal A (L). Connect cable K-HSB5/white to this plinth.
J3/2	SIG-A	Signal A (R). Connect cable K-HSB5/brown to this plinth.
J3/3	SIG-B	Signal B. Connect cable K-HSB5/green to this plinth.
J3/4	0V	Cable shield. Connect K-HSB5/shield to this plinth.

Note that all “0V” plinths are internally connected.

**6 Troubleshooting**

One led can be found in the front of the unit.

The green led is on.

Power is connected.

The green led is off.

Power is not connected.

**7 Contact**

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