



RUB VD

Distribution module 1:4

RS485, RS422 and analog clock signal outputs

Features

- Four built-in amplifiers
- 1:4 Distribution of LTC, Serial and Telegram Signals
- Two RS232 Outputs Four RS422 Outputs
- Compatible with Plura's MTD signal

The module VD is a versatile distributor and amplifier. Injected input signals, e.g. signals provided by the MTD system, are available at its four outputs.

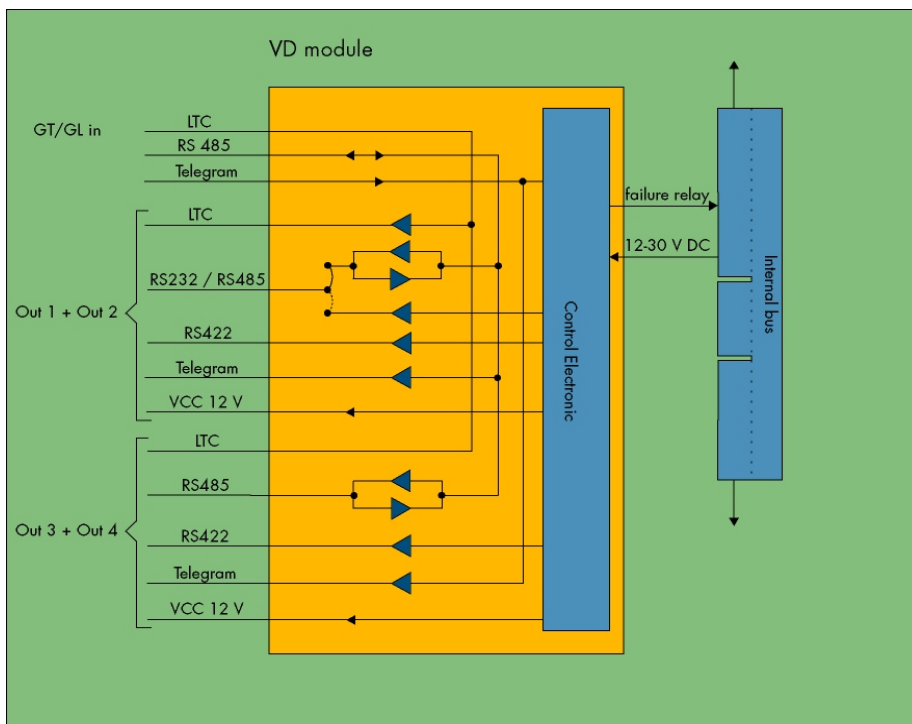
The VD module is able to distribute / amplify typical signals like:

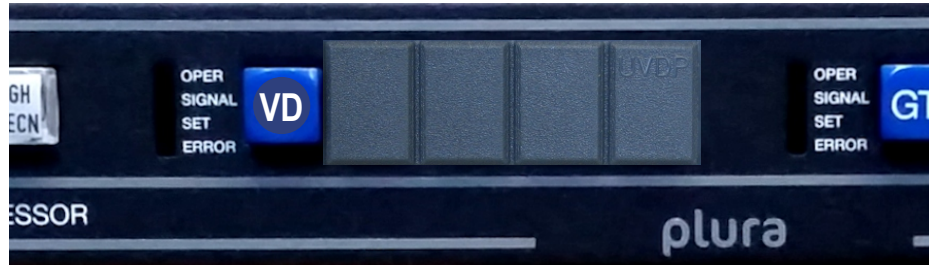
- LTC
- RS485
- SERIAL (RS232 + RS422, e.g. for reference time)
- TELEGRAM (e.g. to access analog clocks)

Das Modul VD ist ein vielseitig einsetzbarer Verteilverstärker. An den vier getrennten Ausgängen liegen sämtliche eingespeisten Signale an, beispielsweise solche, die vom MTD System bereitgestellt werden.

Typische Signale, die das VD-Modul verteilt bzw. verstärkt, sind:

- LTC
- RS485
- SERIAL (RS232 u. RS422, z.B. für Referenzzeit)
- TELEGRAM (z.B. zur Ansteuerung von Zeigeruhren)

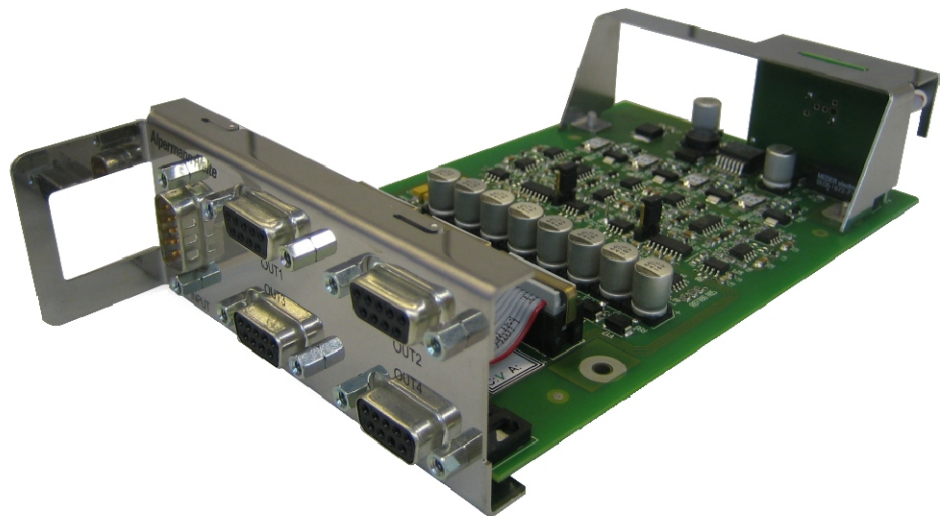




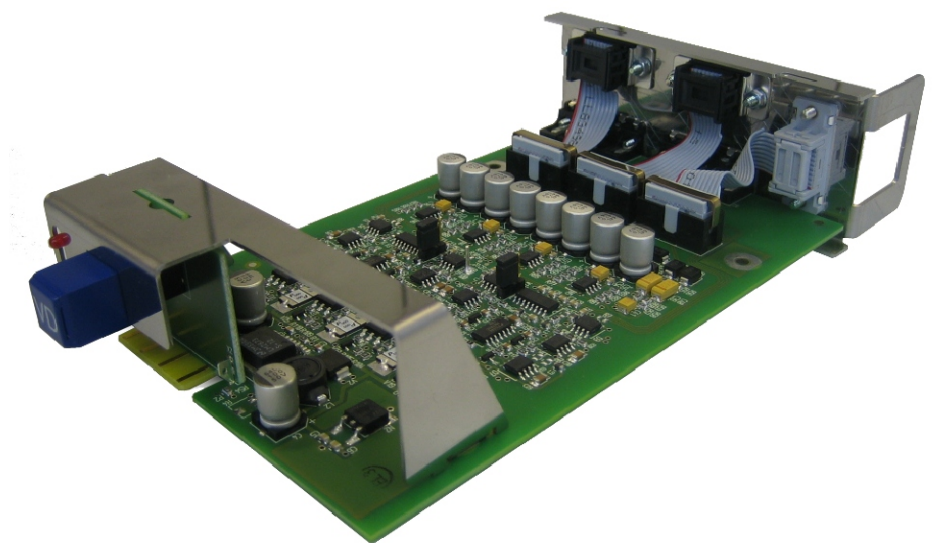
RUB VD in H1 housing

LEDs located on the front of the module and a fault detector relay indicate the present operating status of the module.

LEDs an der Front und ein Fehlerrelais signalisieren den Betriebszustand des Moduls.



RUBIDIUM H1 VD module rear view



RUBIDIUM H1 VD module front view

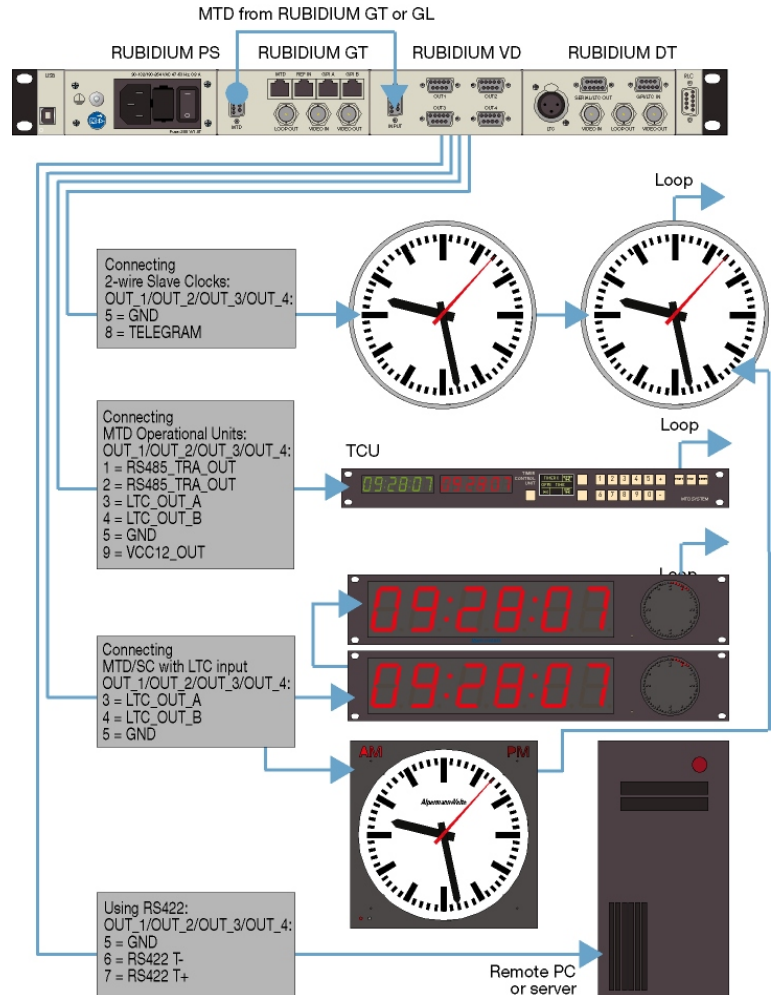


The VD's main task is buffering and distributing the output signals of GT or GL generator modules.

Die Hauptaufgabe des VD-Moduls besteht darin, die Ausgangssignale der Generatoren GT oder GL, gepuffert zu verteilen.

User consoles like the TCU can be connected directly to the VD module.

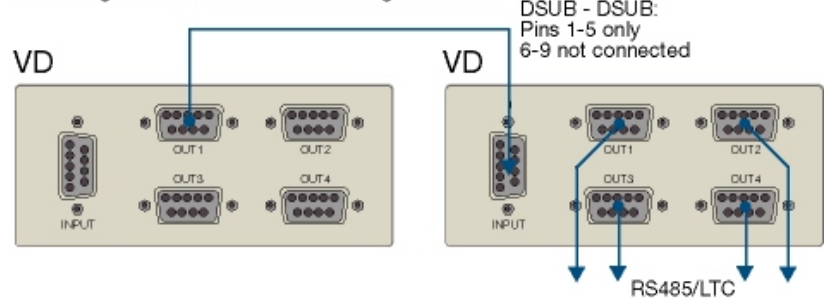
Bediengeräte wie die TCU können direkt an die VD angeschlossen werden.



In case of an exclusive processing of LTC- or RS485 signals, it is possible to cascade multiple VD modules in order to increase the amount of output sockets.

Werden ausschließlich LTC oder RS485-Signale verarbeitet, können mehrere VD-Module kaskadiert werden, um eine höhere Anzahl an Ausgängen zu realisieren.

Cascading VDs for LTC and/or RS485 signals



Analog clocks are accessible via the TELEGRAM protocol. Two-Wire-Mode as well as Four-Wire-Mode is supported.

Analoge Zeigeruhren werden mit dem TELEGRAM-Protokoll angesteuert. Sowohl Zweidraht- als auch Vierdrahtbetrieb sind möglich.



Specifications VD module

LTC input

Connector

Balanced signals LTC_IN_A and LTC_IN_B

Input impedance

18 kΩ

Signal level

100 mVpp - 5 Vpp, auto-ranging

Frequency

0 - 100 kHz

LTC output

Connector

Balanced signals LTC_OUT_A and LTC_OUT_B

Output impedance

< 50 Ω

Gain

1 ± 1 %

TELEGRAM OUT

Signal

Output stage of the TELEGRAM IN signal amplifier
Seconds impulse telegram. Nominal level = 12 V (Version 1)/
= 23 V (Version 2) without load

Maximum current

Fused by a 200 mA auto-recovery fuse each output stage.
A continuous current of up to 120 mA can be applied over the
whole specified operating temperature range.

VCC12_Out

Signal

12 VDC voltage output

Maximum current

Fused by a 500 mA auto-recovery fuse each output stage.
A continuous current of up to 330 mA can be applied over the
whole specified operating temperature range.

Others

Operating voltage

nominal value: 24 VDC

Power consumption (without any load)

hardware version 1: max. 1.6 W

hardware version 2: max. 2.1 W

Weight

0.2 kg approx.

Dimensions Rub H1

2 circuit board (W x D): 100 x 160 mm / 3.94 x 6.30 "

Rear panel: 103 x 44 mm / 4.06 x 1.73 "

Dimensions Rub H3

Rear panel: 3RU, 8HP

Environmental characteristics, operating

Temperature: +5 °C - +40 °C

Relative humidity: 30 % - 85 %, non-condensing

Environmental characteristics, non-operating

Temperature: -10 °C - +60 °C

Relative humidity: 5 % - 95 %, non-condensing

Product ordering ID VD modules

RUB1 VD

Distribution module 1:4 LTC, RS485, RS422, and analog clock
signal outputs for RUBIDIUM Series 1 (1 RU)

RUB3 VD

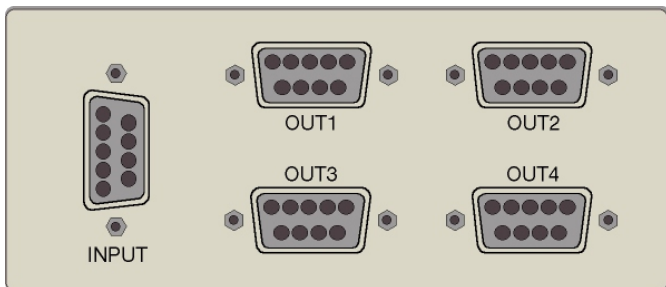
Distribution module 1:4 LTC, RS485, RS422, and analog clock
signal outputs for RUBIDIUM Series 3 (3 RU)

Legend:

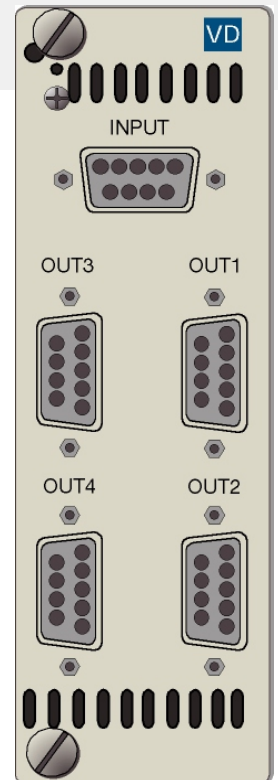
LTC: Linear Time Code (SMPTE 12M-1999)

The RUBIDIUM modules must be used in conjunction with a RUBIDIUM housing and a RUBIDIUM power supply, please see our overview leaflet for more information.

We reserve the right to modify specifications without notice.



RUBIDIUM H1 VD rear panel



RUBIDIUM H3 VD rear panel

