

2CH 100MHz VF CONVERTER
(DESKTOP TYPE)
D2VF-1H
USER'S MANUAL

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TSUJICON APPLICATION OF ELECTRONIC DEVICES

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2CH 100MHz VF converter Desktop Type: D2VF-1H User's Manual [Rev.1]

1. Feature

D2VF-1H is the 100MHz 2CH V-F Converter that is the desktop type.

It has the four-levels amplification factor switch and the polarity selector switch.

D2VF-1H is easy to be monitored.

i.e., the over-range and polarity are displayed on LED and also outputted as open-collector outputs.

Therefore, V-F conversion is always performed at the optimum conditions.

2. Specification

Channels	2CH
Input Range	-10V/-5V/-2.5V/-1V/+1V/+2.5V/+5V/+10V
Input	Single-end
Input Impedance	1M Ω
Output Range	100MHz/50MHz/25MHz/10MHz
Output	TTL level ※ Please use 50 Ω termination to reduce the reflected wave.
Conversion Accuracy	$\pm 0.01\%$ FS
Input Sampling Frequency	1MHz
Response	10 μ s or less
Input Connector	BNC connector
Output Connector for Frequency	LEMO connector (equivalent to EPL00250NTN)
Over-Range output	Open collector (normally close), isolated
Over-Range output Connector	BNC connector
Power supply	AC100V
Case	260W \times 88H \times 280D (Excluding rubber feet)

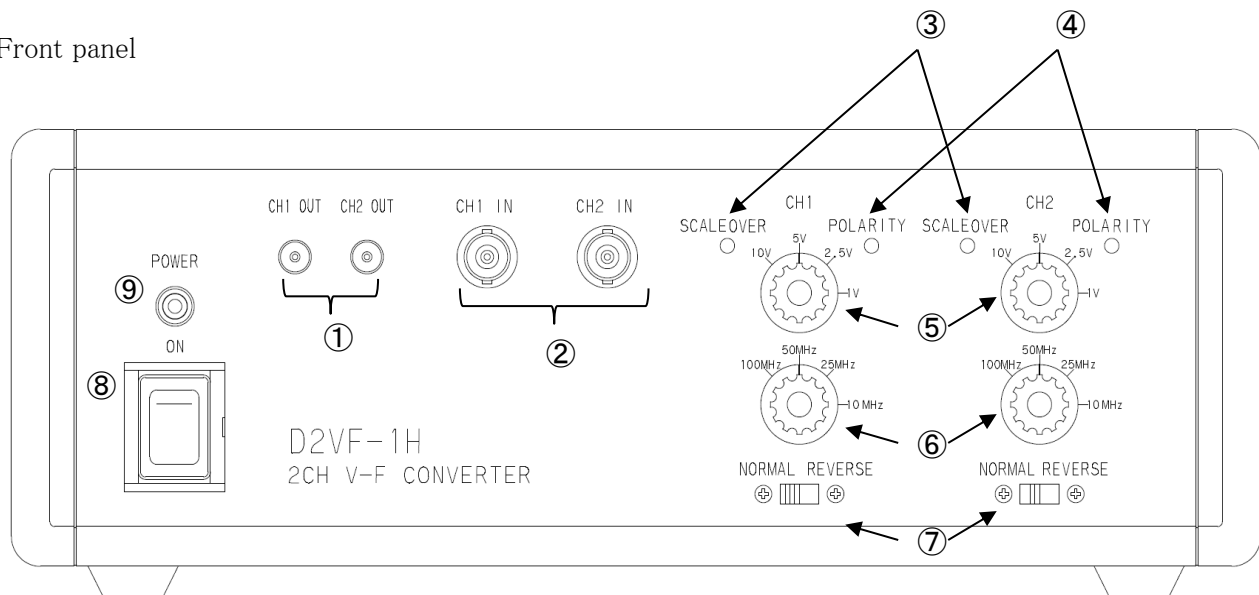
3. Before using

Before using, please power about 2 hours on for a warm-up.

The frequency deviation becomes large, if warm-up has not been made.

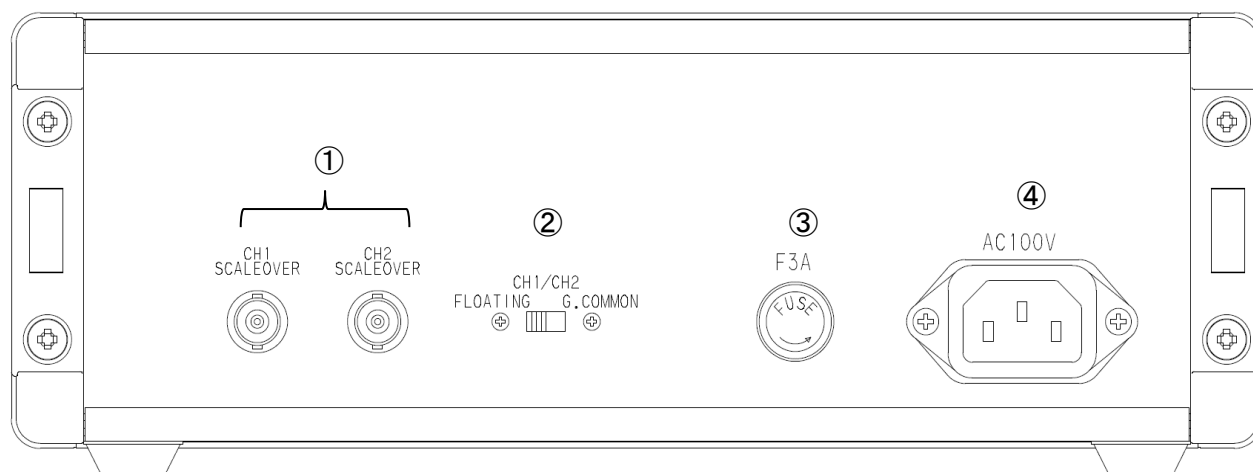
4. Usage

4-1. Front panel



- ① CH1/CH2 Output connector (frequency, LEMO, LVTTTL level)
- ② CH1/CH2 Input connector (voltage, BNC)
- ③ CH1/CH2 Scale over LED
LED lights on when the input level exceeds conversion level.
- ④ CH1/CH2 Input polarity LED
LED lights on if the voltage input polarity is different from the setting.
- ⑤ CH1/CH2 Input voltage range select SW
Select input voltage range.
- ⑥ CH1/CH2 Output frequency range select SW
Select output frequency range.
- ⑦ CH1/CH2 Polarity select slide-SW
NOM: (+), REV: (-)

4-2. Rear panel



- ① CH1/CH2 Scale over output connector (BNC)
Open collector output. It is isolated from the internal circuit.
Output becomes off if the voltage input is over than the setting.
(normaly close)
- ② Changeover switch for choosing isolation or common between
NIM GND and the internal circuit GND.
FLOTING: isolation, G.COMMON: common
- ③ Fuse 3A
- ④ Power supply AC100V

