Datasheet

kolibrik

TEVOMET

Multi-channel temperature and voltage monitor/meter

TEVOMET TV16

Product Description

TEVOMET is a multi-channel meter suitable for laboratory and industrial use. It features 16 independent channels with high precision A/D converters with low noise, automatic offset cancellation and AC filtering.

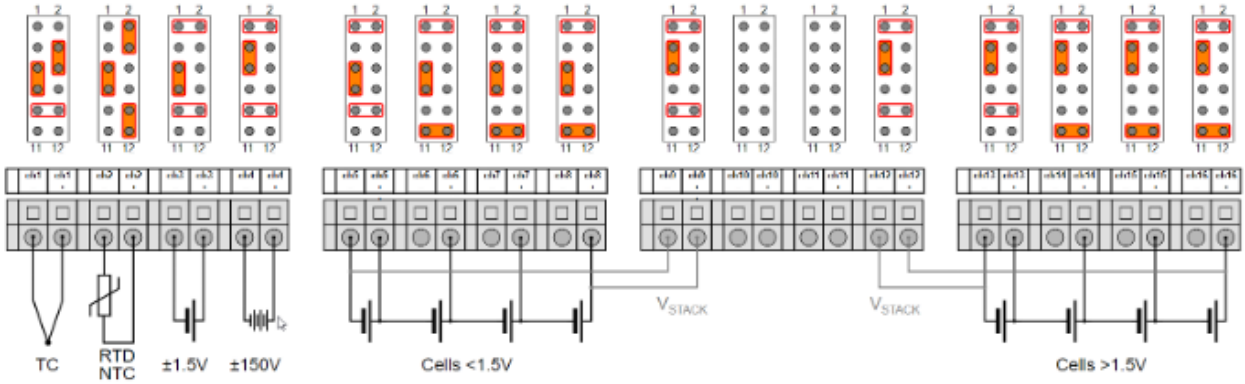
Features

Channel count	16 independent channels for temperature sensors and voltage measuring Each channel is galvanically isolated
Channel voltage range	Multiple order of magnitude input voltage range
Basic voltage ranges	± 1.5 V and ± 150 V
Most common temperature sensors	Thermocouples, built in precise cold junction compensation RTD sensors (Pt100, Pt1000) NTC thermistors up to 10 kΩ
A/D converters resolution	16-bit precise A/D converters with low noise All-channel monitoring up to 5 sps Automatic offset cancellation and AC filtering
Board dimension	230 x 170 x 55 mm
Cell connection	26-pin IDC connector (automotive-grade connectors on request)
Communication bus	USB RS-485 (XC2 protocol or MODBUS) Compatible with other Kolibrik modules
Inputs / outputs	Opto-isolated I/O with serial communication capability

Applications

Fuel-cell stack monitoring	Experimental instrumentation
Electrolyzer monitoring	Bakeout controllers
Battery monitoring	Test stand automation

Channel Connection and Configuration



Examples of connections and jumper setup

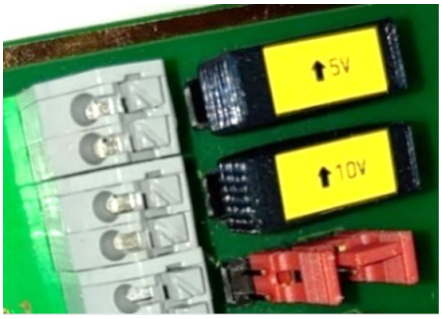
Block scheme of modules in 120-channel

Ordering Information

TEVOMET TV16	16 independent channels, individually configurable by jumpers, connection to internal clamps, RS-485, USB

Piggyback submodules for custom voltage ranges. Other ranges on request.

TVM-PB-5	Piggyback for voltage range 5 V
TVM-PB-10	Piggyback for voltage range 10 V
TVM-PB-CL	Piggyback submodules for current ranges 4 – 20 mA



Example of voltage range piggybacks

Disclaimer
All rights reserved. All data contained within this manual is for information purposes only and is not guaranteed for legal purposes. The Information has been checked carefully and is believed to be accurate; however, no responsibility is assumed for any inaccuracies. Kolibrik.net, s.r.o. reserves the right to change, modify, or improve this document or the product described herein, as seen fit without further notice.

Proprietary Note
This document contains proprietary information and is the property of Kolibrik.net, s.r.o. or under license from third parties. No part of this document may be reproduced, copied, or transmitted in any form or by any means, disclosed to others, or stored in any retrieval system or media without the prior written consent of Kolibrik.net, s.r.o.