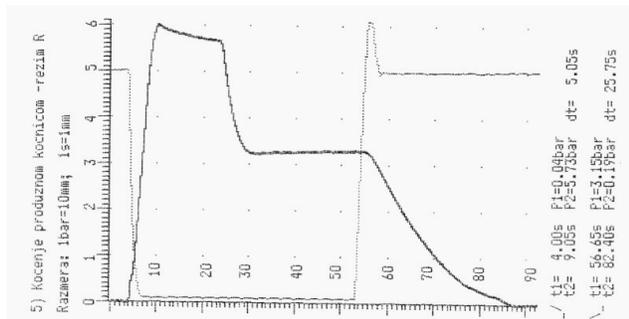


# VAKO-TESTER 10A

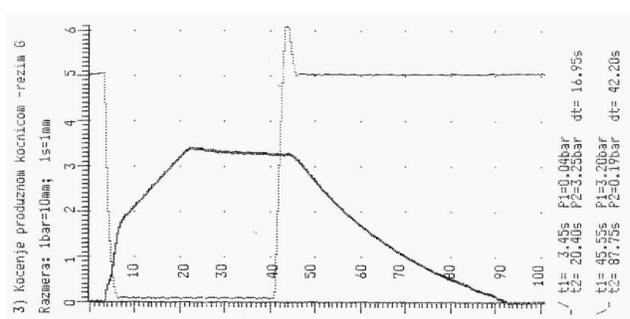
## Testing device for railway vehicle pneumatic brake system



- Portable recording system with 12 expert programs - protocols
- 2 or 4 Inputs (0 to 10 bar)
- Pressure digital indicator, resolution 0.01 bar
- Very easy handle
- Communication over RS-485 and RS-232
- Printing diagrams and parameters



Continuous brake - R (quick acting brake)



Continuous brake - G (freight train)

Every periodical inspection and general overhaul of locomotives and wagons includes technical inspection of the brake system. Pneumatic brake system is tested by recording of air pressure change during the braking and releasing, according to railway measurement standard protocols.

Automatic electronic measurement system Vako-Tester 10A reliably measures, records and automatically takes out results. The value of rise time and fall time of pressure is obtained and printed out. Flow chart of pressure is recorded as hard copy on reliable matrix printer inside of the device.

Vako Tester is a mobile device powered by battery pack and can work with, or without PC computer.

Current embedded program supports 12 different automatic modes of measurements according to working time and brake system:

No.	Mode	Working time [s]	Parameters
0.	"FREE program",	Until STOP	-
1.	"Leakage of main brake pipe",	10+290+10	Leakage
2.	"Leakage of brake cylinder pipe",	10+290+10	Leakage
3.	"Continuous braking - mode G",	180	Rise and fall time
4.	"Continuous braking - mode P (passenger train)",	90	Rise and fall time
5.	"Continuous braking - mode R",	180	Rise and fall time
6.	"Sensitivity of distributor valve"	90	-
7.	"Gradual braking with a continuous brake",	150	-
8.	"Braking with a vigilance device",	60	Rise time
9.	"Braking with a emergency brake valve",	60	Rise time
10.	"Braking with a locomotive brake",	120	Rise and fall time
11.	"Gradual braking with a locomotive brake",	120	-
12.	"Braking with Auto Stop device",	60	Rise time

<b>Technical Specifications:</b>	
<b>Custom software embedded:</b>	12 custom programs arranged to railway measurement protocols, plus free run mode of recording
<b>Connecting to pneumatic installation:</b>	Each measurement channel are connected via fast connecting plug UT1-23, HV1-23.
<b>Measurement range:</b>	0-10 bar, each channel.
<b>Overload pressure:</b>	20 bar
<b>Pressure measurement accuracy:</b>	±0,5% of Full scale
<b>Temperature working range:</b>	-20°C to 60°C
<b>Humidity working range:</b>	10-90% RH
<b>Pressure indication:</b>	Two LED digital indicator, 3 1/2 digits, resolution 0,01 bar
<b>Program working indicator:</b>	<ul style="list-style-type: none"> <li>- current program number</li> <li>- elapsed time</li> <li>- measured pressures</li> <li>- current battery condition</li> </ul>
<b>Registration - printing:</b>	<ul style="list-style-type: none"> <li>- Printing on 80mm paper tape</li> <li>- two color or two thickness chart diagram</li> <li>- alphanumeric presentation of measuring brake parameters</li> </ul>
<b>Printing speed:</b>	2 mode: <ul style="list-style-type: none"> <li>- normal 1s ~ 1mm</li> <li>- fast (4X) 1s ~ 4mm</li> </ul>
<b>Communication:</b>	RS-485, RS-232
<b>Power supply:</b>	<ul style="list-style-type: none"> <li>- Battery, Pb sealed gel accumulators 3x12V</li> <li>- External power 220V/50Hz</li> </ul>
<b>Dimension:</b>	(300x450x350) mm
<b>Weight of device with battery:</b>	9 kg