MAXIMATOR®
Maximum Pressure.

High Pressure Technology • Testing Equipment
Hydraulics • Pneumatics

Illustration shows MX controller hardware, proportional valve assembly and 10.1" industrial tablet

» MX-Controller
The smart control for air-driven Maximator high-pressure pumps.

MX Controller

Smart pump control

The MX controller is an effective control system, specially developed for the drive-side control of air-driven Maximator high-pressure pumps. Additional outputs can also be used to control valves, which means that complex test sequences can be realized with minimal effort.

The MX controller consists of a pneumatic control unit to control the drive pressure of an air-driven pump or a pump system. The control is carried out by a microcontroller specially developed for air-driven Maximator high-pressure pumps. The embedded PC enables the operator to manage recipes and log test results with a user-friendly and intuitive user interface.

The visualization takes place via a web interface and can be accessed via LAN or WLAN with a PC, tablet or smartphone.

The MX controller offers a very precise automatic control of the high pressure pumps based on predefined multi-stage and / or linear pressure curves.

This pneumatic control is a very efficient solution for the automation of high pressure pumps for various pressure, burst and leak test applications.

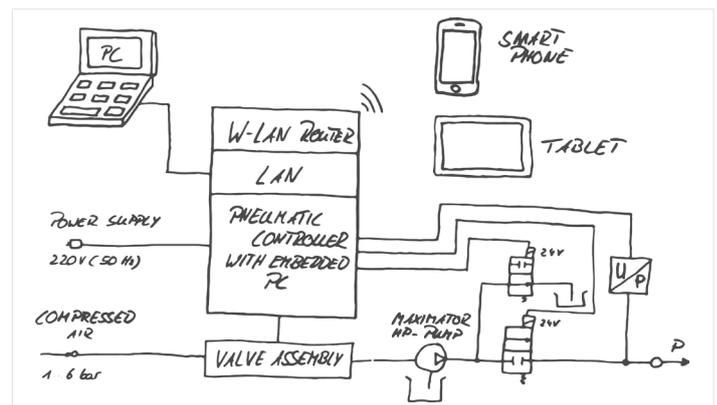Connection cable for pressure transducer

Valve assembly

MX-Controller

Features

- Compact design

- Autonomous functional unit

- Pressure build-up using a digital proportional valve

- Visual representation of the pressure / time profiles

- Operation via web visualization with tablet or smartphone

Functional sketch

Technical Data

Electrical inputs and outputs

Operating voltage:	230 V/50 Hz (120 V/60 Hz) 10A
Valve control:	
V1 (NC):	M12x1,5
V2 (NO):	M12x1,5
V3 (NC):	M12x1,5
Analog sensor (4-20mA):	M8x1

Connections

Air drive connection (P_L)

Valve assembly:	1/4 " BSP female
Web-Interface:	LAN or WLAN

Medium for valve assembly

Compressed air or nitrogen

Air drive pressure

Air drive pressure (P_L):	max. 6 bar
Pressure steps:	5 (incl. 1 prefill-step)

Dimensions

Controller Box (LxWxH):	300 x 85 x 230 mm
Valve assembly (LxWxH):	160 x 50 x 150 mm

Medium volume flow

max. 400 NL/min

Visualization

Web-Interface:	HTML
Touch Panel (Optional):	10,1"
Industrie PC (Optional):	10"
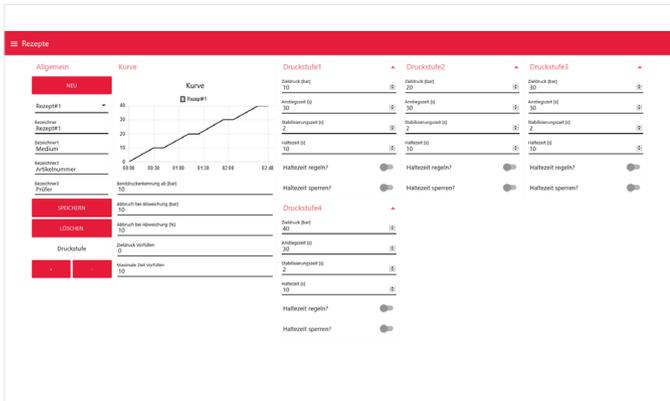
Creation of a test profile (recipe)

Test result

MX-Controller:	
MX-Controller Basic (incl. Valve assembly and connection cable for pressure transducer)	3301.8833
Tablet for MX-Controller Basic (Device for operation)	1901.2324
MX-Controller with Display (width/hight: 245 mm/168 mm) and Frame (width/hight: 274,11 mm/187 mm)	3301.0423
Accessories:	
Solenoid valve (MFH 3-1/4 with 24V coil)	3300.0346
Pressure transducer_0-100BAR_G1/2a_S	3301.3666
Pressure transducer_0-250BAR_G1/2a_S	3301.6725
Pressure transducer_0-600BAR_G1/2a_S	3301.3645
Pressure transducer_0-1000BAR_G1/2a_S	3301.6727
Pressure transducer_0-1600BAR_UNF9/16-18a	3301.3509
Pressure transducer_0-2500BAR_UNF9/16-18a	3301.3672
Pressure transducer_0-4000BAR_UNF9/16-18a	3301.3673

On your side everywhere

As the technology leader in the area of high-pressure and testing technology, hydraulics and pneumatics up to 25,000 bar, Maximator GmbH, with its company headquarter in Nordhausen, has been extremely successful worldwide for more than five decades.
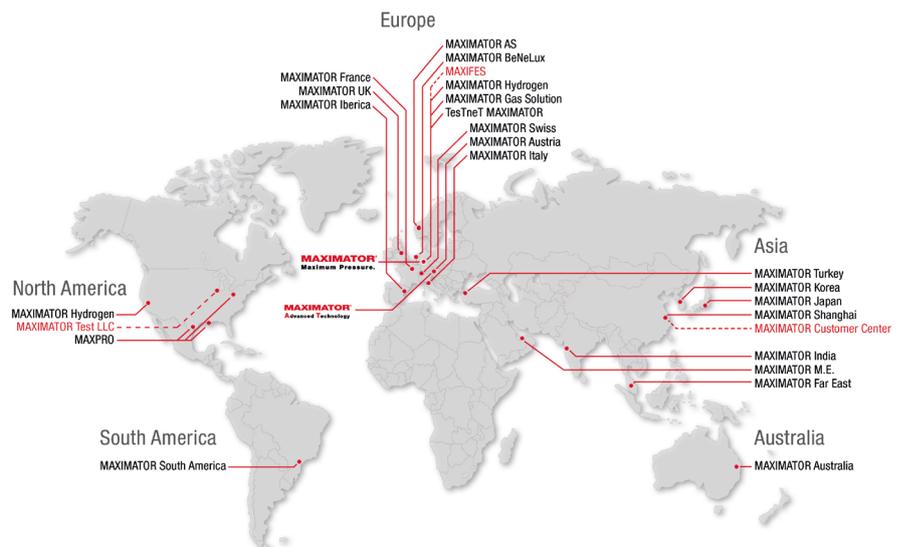
With our products and innovative system solutions, we are the long-standing partner of companies of repute in the automotive and supplier industry, as well as the chemical and mechanical engineering, energy, oil and gas industry sectors.

With our international partner companies, experienced experts in high-pressure technology are always ready to assist you. We have compiled detailed contact information for our international partners which you can find on our website at:
www.maximator.de/worldwide+distribution

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