

Product Information

RetroLine testControl II ProLine

CTA: 106825 107113



ProLine Z10 with MOPS electronics before modernization



ProLine Z10 after modernization

Advantages and features

The ProLine materials testing machine product group was primarily developed for standardized tests on materials and components. Modernization with RetroLine testControl II for ProLine allows tests to be performed using the latest testing technology.

- over 20 years' experience in modernizing materials testing machines
- warranty for newly installed components, as with new machines
- renewed long-term service and support
- rapid assistance via Hotline and in the event of repairs
- testControl II measurement and control electronics satisfy the most demanding safety requirements
- enables validation of the testing machine in accordance with the latest quality standards
- intelligent testXpert III testing software
- re-use of expensive components such as extensometers and specimen grips
- existing load cells converted and re-calibrated
- Modern drive technology, achieved by installing a new, energy-efficient AC motor, with greatly improved control and positioning accuracy

MOPS electronics: Continued service reliability and future upgradeability no longer guaranteed

Future upgradeability for machines with this generation of electronics can no longer be guaranteed. New developments, for example in testXpert III testing software or modern sensor technology, cannot generally be used in conjunction with MOPS measurement and control electronics.

MOPS electronics can no longer satisfy the requirements of a number of new standards, particularly where high data acquisition rates and fast response times are required.

As of 8 April 2014 Microsoft has ended support for Windows XP; this represents a relatively high potential security risk. For the use of Windows 7 in conjunction with MOPS electronics, ZwickRoell is only able to supply a testXpert II version "frozen" in 2011 and excluded from future developments.

ZwickRoell guarantees spare-part availability and technical service and support for ten years following discontinuation of a generation of electronics. This ten-year period ended on 31 December 2016. ZwickRoell will endeavor to provide assistance after this date wherever possible, but obtaining spare parts and providing technical support is becoming increasingly difficult.

Product Information

RetroLine testControl II ProLine

Description	Value
Machine electronics	
Number of available slots for measurement and control modules:	
Synchronized module slots	2 (expandable to 5) ¹⁾
Synchronized PCIe slots	1
Force measurement	Class 0.5/1, depending on load cell, compliant to DIN EN ISO 7500-1, ASTM E4
Measurement range	Up to 165% of Fmax
Calculated resolution (e.g., load cell in tensile/compression direction)	24 bit
Effective resolution in tensile/compression direction:	
DCSC module	19 bits (corresponds to ±512,000 points)
USC module	20 bits (corresponds to ±1,000,000 points)
Measured value recording rate	400 kHz
Measurement value transmission rate to PC	500 (optional 2000) Hz
Zero-point correction	Automatic, at start of measurement
Measurement signal, runtime correction	Yes
Interface to PC	Ethernet
Eco mode	Yes (time adjustable)
CE conformity	Yes, according to Machinery Directive 2006/42/EC

¹⁾ A DCSC module is included in the scope of delivery (occupies one module slot).

Power input specifications			
Version	400	800	W
Power supply	230	230	V
Phases	1Ph/N/E	1Ph/N/E	
Permissible voltage fluctuation	±10	±10	%
Power consumption (full load), approx.	800	1600	VA
Power frequency	50/60	50/60	Hz

RetroLine testControl II ProLine modernization packages

Description	Item number
ProLine 1. Generation: MOPS, wide base	
ProLine Z005/TS, $V_{max}= 500$ mm/min and test area (height H x width W) 561 x 420 mm	1028811
ProLine Z005/TN, $V_{max}= 500$ mm/min and test area (H x W) 1061 x 420 mm	1028814
ProLine Z010/TN, $V_{max}= 1000$ mm/min and test area (H x W) 1041 x 420 mm	1028816
ProLine Z020/TN, $V_{max}= 500$ mm/min and test area (H x W) 1041 x 420 mm	1028818
ProLine 2. Generation: MOPS, small base	
ProLine Z005/TS, $V_{max}= 500$ mm/min and test area (H x W) 565 x 440 mm	1028813
ProLine Z005/TN, $V_{max}= 500$ mm/min and test area (H x W) 1065 x 440 mm	1028815
ProLine Z010/TN, $V_{max}= 1000$ mm/min and test area (H x W) 1045 x 440 mm	1028817
ProLine Z020/TN, $V_{max}= 500$ mm/min and test area (H x W) 1045 x 440 mm	1028819
ProLine Z030/TN, $V_{max}= 300$ mm/min and test area (H x W) 1370 x 440 mm	1028820
ProLine Z050/TN, $V_{max}= 180$ mm/min and test area (H x W) 1370 x 440 mm	1028821

Product Information

RetroLine testControl II ProLine

Description	Item number
ProLine 3. Generation: testControl, small base	
ProLine Z005/TS, $V_{max}= 500$ mm/min and test area (H x W) 570 x 440 mm	1028813
ProLine Z005/TN, $V_{max}= 500$ mm/min and test area (H x W) 1070 x 440 mm	1028815
ProLine Z010/TN, $V_{max}= 1000$ mm/min and test area (H x W) 1050 x 440 mm	1028842
ProLine Z010/TH, $V_{max}= 1000$ mm/min and test area (H x W) 1450 x 440 mm	1028844
ProLine Z020/TN, $V_{max}= 500$ mm/min and test area (H x W) 1050 x 440 mm	1028847
ProLine Z030/TN, $V_{max}= 300$ mm/min and test area (H x W) 1370 x 440 mm	1028820
ProLine Z050/TN, $V_{max}= 180$ mm/min and test area (H x W) 1370 x 440 mm; BT1-FB050TN.D30	1028821
ProLine Z050/TN, $V_{max}= 600$ mm/min and test area (H x W) 1370 x 440 mm; BZ1-FB050TN	1028850
ProLine Z100/TN, $V_{max}= 300$ mm/min and test area (H x W) 1360 x 640 mm	1028854

Conversion of existing ProLine load cells for testControl II

Description	Item number
Conversion kit for 5 kN load cell	1031197
Conversion kit for 10 kN load cell	1031199
Conversion kit for 20 kN load cell	1031200
Conversion kit for 30 kN load cell	1031201
Conversion kit for 50 kN load cell	1031192
Conversion kit for 100 kN load cell	1031194

Optional accessories

Description	Item number
M28x1.5 connecting flange plate for ProLine load frame from 5 to 20 kN without M28x1.5 thread in moving crosshead, enables use of accessories from current product range with M28x1.5 connection in moving crosshead	1030299
Retaining sleeve for Makro extensometer for first generation ProLine load frames from 5 to 20 kN	1030306