











FMI Control units (software version 4.00)					
Description		FMI-1	FMI-2	FMI-3	FMI-FMPA
					
Contact free MC (Moisture Content) measurement		V	V	V	V
MC measurement suitable for	Hardwood	V	V	V	
	Softwood	V	V	V	
	Flooring, furniture etc.	V	V	V	
	Construction timber etc.			V	
MC measurement	According to EN 13181-3	V	V	V	V
	According to EN 386 & DIN 4074			V	V
	Approved by MPA (Otto Graph Institute) / FMPA / Önorm EN 386 ¹				V
	Approved by University of Munich for non-contact Stress Grading according to EN 14081 in combination with MiCROTEC Golden Eye				V
Density calculation	According to EN 384				V
MC range	2~30%	V	V	V	V
	2~99,9% (Pre-sorting)			O	
Maximum number of MC Sensors	Longitudinal, all models ¹	1	1	1	1
	Transversal X100			1	
	Transversal X400, X600	1	1	3	
	Transversal X800			6	
Product programs		250	250	1000	1000
Per product program	Wood species as text	V	V	V	V
	10 statistical ranges, user definable		V	V	V
	Batch information	V	V	V	V
	Density in kg/m ³	V	V	V	V
	Wood dimensions in mm/inch	V	V	V	V
	Peak, average and real time marking	V	V	V	V
	Maximum moisture level	V	V	V	V
	Minimum moisture level		V	V	V
	4/5 Level sorting			O	
	Manual/Automatic calibration	V	V	V	V
	Manual optimization		V	V	V
	Automatic optimization			V	V
	Edit product programs		V	V	V
	Copy product programs			V	V
Adjustable sensitivity for knot, wet spot and finger joint suppression				V	V
Clock with date and time		V	V	V	V
Pin code		V	V	V	V
Printer mode / Reports on serial printer			O	O	
Terminal modes / communication protocols				V	V

¹ With external density measurement system











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Description		FMI-1	FMI-2	FMI-3	FMI-FMPA
					
Software	FMI Report			O	
	FMI Excel			O	
	FMI RCD / IQCS			O	
	FMI FMPA				V
Display	Graphical display with backlight	V	V	V	V
	Measurement screen for average, maximum, minimum and continuous moisture content reading of each board	V	V	V	V
	Statistical screen with 10 ranges including average MC, standard deviation and graphical overview		V	V	V
Moisture content digital		V	V	V	V
Resolution in %		0.1	0.1	0.1	0.1
Accuracy in % (absolute value, measured on reference material)		0.2	0.2	0.2	0.2
Repeatability in % (absolute value, measured on reference material)		0.2	0.2	0.2	0.2
CE approved		V	V	V	V
FCC approved		V	V	V	V
Calibration report		V	V	V	V
Microprocessor controlled		V	V	V	V
Software Updates		O	O	O	O
Backup memory		V	V	V	V
Data input for automatic width measurement with optional sensor ²				V	
Digital inputs for automatic zeroing, start/stop and pause				V	V
Relay output sorting too wet		V	V	V	V
Relay output sorting too dry			V	V	V
Relay output sorting 4 levels / 5 levels				O	
Relay output alarm				V	
Relay output Watch-Dog			V	V	V
RS232 and RS485 communication port		V	V	V	V
Ethernet communication port		O	O	O	
Analogue output 0(4)~20mA or 0~10Volt				V	V
Supply voltage 90~132 / 175~264 VAC 47~440 Hz		V	V	V	V
Operating temperature 10~40°C / 50~104°F		V	V	V	V
Dimensions in mm		380x380x240	380x380x240	380x380x240	380x380x240
Weight in kg		12.7	12.7	12.7	12.7

V = Standard, O = Option

² By using this option, the reporting facilities by printer, Windows software or terminal mode options are not available.





















FMI Sensors (software version 3.26)								
Description	X100	X400	X600	X800	L100-C	L100	L150	L200
								
Wood transport	Transversal	Transversal	Transversal	Transversal	Longitudinal	Longitudinal	Longitudinal	Longitudinal
Minimum wood length [mm]	200	600	800	1200	200	250	350	450
Minimum wood width [mm]	20	30	30	30	30	30	40	50
Wood thickness [mm]	5-50	10-150	10-150	10-150	10-100	10-100	20-150	50-200
Wood moisture measuring over entire	Width	Width	Width	Width	Length	Length	Length	Length
Measuring spot [mm]	100	250	500	2x250	100	150	150	150
Variable wood width within batch from [mm] ³	40	100	100	100	125	200	200	250
Variable wood width within batch from [mm] ⁴	-	-	-	-	30	30	40	40
Microprocessor controlled	V	V	V	V	V	V	V	V
Drift free sensor electronics	V	V	V	V	V	V	V	V
Number of measurements per second	400	400	400	400	400	400	400	400
High speed digital communication	V	V	V	V	V	V	V	V
Reference block with calibration report	V	V	V	V	V	V	V	V
Maximum length sensor cable [m]	25	25	25	25	25	25	25	25
Operating temperature -20~40°C / 14~104°F	V	V	V	V	V	V	V	V
Heavy duty industrial housing	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Steel, powder coated	Steel, powder coated	Steel, powder coated	Steel, powder coated
Dimensions [mm]	400x200x150	400x200x150	600x200x150	2 Sensors, 400x200x150	615x365x290	615x365x290	615x365x340	615x365x390
Weight [kg]	9,8	9,8	13,4	2x9,8	26.7	26.7	27.6	28.5

³ Standard

⁴ Optional



		FMI systems - Article codes and prices			
Description		FMI-1	FMI-2	FMI-3	FMI-FMPA
					
FMI Set with 1 X100 sensor				141.251	
FMI Set with 1 X400 sensor		141.209	141.208	141.201	
FMI Set with 2 X400 sensors				141.202	
FMI Set with 3 X400 sensors				141.203	
FMI Set with 1 X600 sensor		141.309	141.308	141.301	
FMI Set with 2 X600 sensors				141.302	
FMI Set with 3 X600 sensors				141.303	
FMI Set with 1 X800 sensors (master-slave function)				141.404	
FMI Set with 2 X800 sensors (master-slave function)				141.405	
FMI Set with 3 X800 sensors (master-slave function)				141.406	
FMI Set with 1 L100-C sensor				141.122	
FMI Set with 1 L100 sensor		141.119	141.118	141.112	141.115
FMI Set with 1 L150 sensor				141.132	141.135
FMI Set with 1 L200 sensor				141.142	141.145

A complete FMI set consists of a FMI Control unit, FMI Sensor(s), FMI Calibration block(s), FMI Sensor cable(s) of 5-25 meter and FMI Installation manual & User manual. FMI-FMPA set also contains a FMD6 Handheld MC meter set.

Options

- 141.402 4 Level sorting
- 141.407 5 Level sorting
- 141.403 Marker set, complete
- 141.411 PC software FMI Excel
- 141.413 PC software FMI Report
- 141.414 PC software FMI RCD / IQCS
- 141.416 Moisture measurement 2-99,9% (Pre-sorting)
- 142.501 Sensor package for width independent moisture measurement of wood
- 154.121 Printer with printer cable