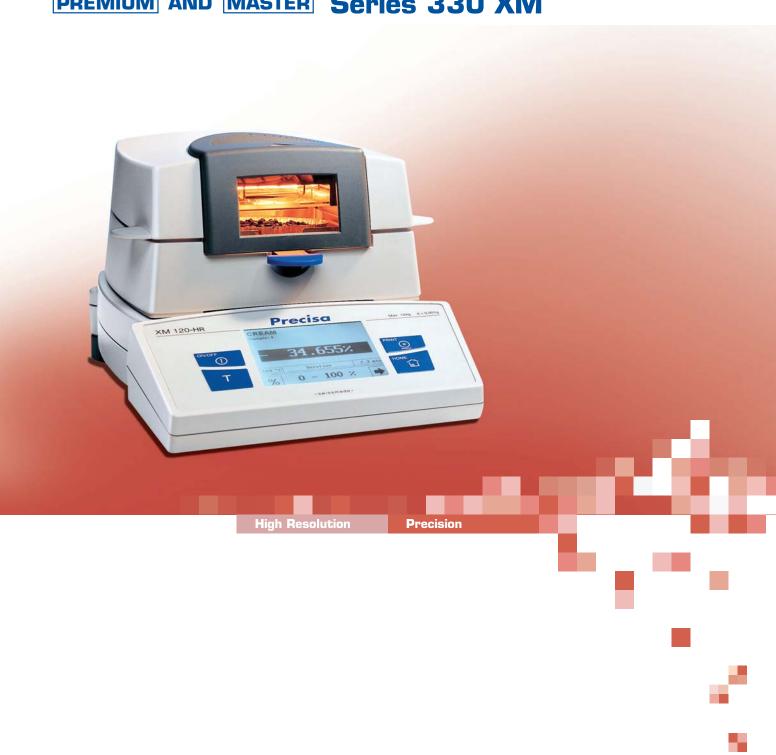
## **Moisture Analyzers**

PREMIUM AND MASTER Series 330 XM





# PREMIUM AND MASTER Series 330 XM



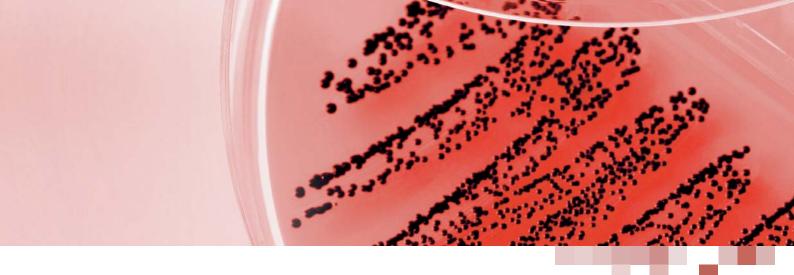
Moisture Analyzers from Precisa for efficient measurements and accurate results.

As the leading manufacturer of thermogravimetric analytical equipment, Precisa excels with an extensive range of moisture analysis equipment, meeting highest demands in research, production and quality control. Moisture and water content have a defining influence on the quality and processing of materials, as well as on the price of raw materials and finished products in many industries including food, animal feeds, chemical and pharmaceutical products, construction materials etc.

The use of compact and robust precision moisture measuring instruments in the laboratory and in production increases efficiency and saves time and costs. Furthermore, productivity is enhanced by the fully automatic moisture analysis of samples, and the corresponding generation of measurement documentation.

All models of the Series 330 XM provide fast, error-free moisture analysis, using highest degrees of measurement performance and precision.

Simple to use and service-friendly to maintain, the Series 330 XM is the result of Swiss precision in engineering and production, which guarantees reliability, robustness and an extensive life of error-free operation at highest levels of precision.





Compactly styled design



3 different radiation heat sources are optional



Outstanding Touch Screen Display

# PREMIUM Precisa XM 120-HR

#### **READABILITY 0.001%**

The top-level PREMIUM CLASS unit, developed for the most demanding applications with a wide range of methods, fastest sample throughput and conforming to the most stringent international standards.

#### **TOP QUALITY TECHNOLOGY**

- Weighing technology which meets all international metrological regulations
- Weighing range 124 g
- Readability 0.1 mg / 0.001%
- High temperature range up to 230°C
- Temperature step of 1°C
- 3.4" touch-screen LCD backlit graphic display
- Graphic print-out (RS232 interface)
- Extended method memory capacity
- Choice of radiation heat source: halogen, infrared, dark radiator

#### **USER FRIENDLY**

- Pictogramm driven user guidance
- Variety of start-up and end-point control selections
- Three-phase drying for total control
- Easy access sample holder
- Practical construction to enable easy cleaning

#### **QUALITY ASSURANCE**

- Results printed in GLP guideline format
- Numerical and statistical analysis available
- Real-time observation in graphic display
- Fast sample throughput with optimum precision analysis
- XM 120-HR KW Special model for rapid gypsum analysis.





Robust and simple to operate



Easy sample access



Menu-driven, screen-quided applications

### MASTER

## Precisa XM 60-HR/XM 60/XM 66

#### **READABILITY 0.001% - 0.01%**

High-end MASTER CLASS units for customers with limited number of methods. These instruments are robust, provide a high degree of precision and are simple to operate.

## THE VERSATILE ALL-ROUND MOISTURE DETERMINATION SOLUTION

- Sturdy construction, perfect for all laboratory and production environments
- Weighing range up to 124 g
- Readability up to 0.1 mg / 0.001%
- High temperature range of 230 °C
- Temperature step of 1 °C
- Practical construction to enable easy cleaning
- · High contrast, bright vacuum fluorescent display
- Memory storage of up to 20 methods
- Interface RS232
- Choice of radiation heat source: halogen, infrared, dark radiator

#### SIMPLE, FAST AND ACCURATE

- Variety of start-up and end-point control selections for optimum control
- Language independent prompts operated by symbol keys
- Easy access sample holder

#### **QUALITY ASSURANCE**

- Results printed in GLP guideline format
- · Numerical and statistical analysis available
- · Real-time results shown in display
- · Special version without glass for the food industry
- XM 66 with increased weighing range of 310 g and special software for the rapid moisture results for sewage and waste water treatment plants





## **PREMIUM** Series 330 XM



Model	Capacity	Readability	Repeatability		Linearity	Pan Size (mm/inch)
XM 120-HR	124 g	0.1 mg / 0.001 %	1 g / 0.1 %	10 g / 0.01 %	0.2 mg	Ø 100 / 3.9



### MASTER Series 330 XM

Model	Capacity	Readability	Repe	atability	Linearity	Pan Size (mm/inch)
XM 60-HR	124 g	0.1 mg / 0.001 %	1 g / 0.1%	10 g / 0.01 %	0.2 mg	Ø 100 / 3.9
XM 60	124 g	1 mg / 0.01 %	1 g / 0.2%	10 g / 0.02 %	1.5 mg	Ø 100 / 3.9
XM 66	310 g	1 mg / 0.01 %	1 g / 0.2%	10 g / 0.02 %	1.5 mg	Ø 100 / 3.9



### **STANDARD** Series 330 XM

Mo	odel	Capacity	Readability	Repeatability	Linearity	Pan Size (mm/inch)
XM	<i>I</i> 50	52 g	1 mg / 0.01 %	1 g / 0.5% 10 g / 0.05 %	3.0 mg	Ø 100 / 3.9

Accessories	XM 330 Series
Aluminum dishes, Ø 100 mm, (box with 80 pcs.)	350-2032
Fibreglass-filters, Ø 90 mm, (box with 80 pcs)	350-4130
Temperature sensor plate (Sensor - type K)	350-8580
Temperature calibration set (Senosr - type K) with certificate	350-8585
Temperature calibration set (Senosr - type K) without certificate	350-8584
Stainless steel dish, reusable, Ø 100 mm, (1 pcs.)	330-2018
Calibration weight, 50 g	350-8241
Dust cover over display, set of 20 pieces	350-8590
Printer CBM910 230V - with cable and paper roll	350-8363
Printer CBM910 115V - with cable and paper roll	350-8370
Paper roll for Printer CMB910	350-8366
Ribbon for Printer CBM910	350-8367

Options	XM 120-HR	XM 60-HR	XM 60	XM 66	XM 50
Halogen heating system	standard	standard	standard	standard	available
Infrared heating system	available	available	available	available	available
Dark radiator heating system	available	available	available	available	standard
Application for rapid gypsum analysis	available	-	-	-	-

## **Features and Applications**



Swiss made

Interface RS232 for PC printer



Easy alpha-numeric input



Touch screen LCD backlit graphic display



Support IQ/OQ/PQ



Clock (Printout GLP/GMP, etc.)



Vacuum Fluorescent Display



External calibration system



Anti theft protection - password and mechanical

## **Moisture Analyzers**

PREMIUM AND MASTER Series 330 XM

Technical Specification	XM 120-HR	XM 60-HR	XM 60	XM 66	XM 50
Heat Source:					
Radiator type	Halogen / Infrared / Dark	Halogen / Infrared / Dark	Halogen / Infrared / Dark	Halogen / Infrared / Dark	Dark / Infrared / Halogen
Neighing system:	Illiaca / Bark	illiard / bark	IIIIaica / Bark	illiard / bark	illitarea / Flaiogen
Weighing range (g)	124	124	124	310	52
Pan Size [Ø mm]	100	100	100	100	100
Smallest sample weight (g)	0.2	0.2	0.2	0.2	0.2
Readability (g)	0.0001	0.0001	0.001	0.001	0.001
Moisture Analysis:					
Readability (%)	0.001	0.001	0.01	0.01	0.01
Reproducibilty (%)					
at approx g /%	1 / 0.1	1 / 0.1	1 / 0.2	1 / 0.2	1 / 0.5
at approx g /%	10 / 0.01	10 / 0.01	10 / 0.02	10 / 0.02	10 / 0.05
Results calculations:					
100% 0%	•	•	•	•	•
0% 100%	•	•	•	•	•
ATRO 100% 999% ATRO 0% 999%	•	•	•	•	•
	•	•	•	•	•
g/kg	•	•	•	•	•
Risidual weight (g) Neight loss (g)	•	•	•	•	•
Heating:	-	•	•	•	
Temperature range / Step (°C)	30 - 230 / 1	30 - 230 / 1	30 - 230 / 1	30 - 230 / 1	30 - 170 / 1
Intervals	30 - 230 / 1	boost + 1	boost + 1	boost + 1	boost + 1
	standard, boost,	standard, boost,	standard, boost,	standard, boost,	standard, boost,
Heating modes	smooth	smooth	smooth	smooth	smooth
Switch-off (min)	0.1 - 99.9				
Switch-off (%)	0.1 - 99.9				
Switch-off Criteria:					
Auto Stop (d/s)	freely definable	freely definable	freely definable	freely definable	freely definable
Auto Stop (%/s)	freely definable	freely definable	freely definable		
Fimer Stop (min)	0.1 - 240	0.1 - 240	0.1 - 240	0.1 - 240	0.1 - 240
Minimum Stop (%)	0.1 - 99.9				
AdapStop	•	•	•	•	•
Sequence control system:					
Semi-Automatic	•	•	•	•	•
Standby temperature (°C)	30 - 100	30 - 100	30 - 100	30 - 100	30 - 100
Monitoring:					
Inspection window	•	•	•	•	
Buzzer	•	•	•	•	
Print-out:		•			
GLP	0.1.10.0	-	•	•	0.1 10.0
Print interval (min)	0.1 - 10.0	0.1 - 10.0	0.1 - 10.0	0.1 - 10.0	0.1 - 10.0
Jser texts	•				
Freely definable formats Sample numbering	•	•	•	•	•
Memory Capacity:	•	•			•
	50	20	20	2 fix 2 fron	1
Article (with all settings)	30	20	20	3 fix, 2 free	1
lear tayte	20				
Jser texts	20				
Operation:		VED 20 characters	VED 20 characters	VED 20 characters	VED 20 character
Operation:	Graphics, LCD, backlit	VFD, 20 characters, alphanumerical	VFD, 20 characters, alphanumerical	VFD, 20 characters, alphanumerical	
Operation: Display	Graphics, LCD,				
Operation: Display Keyboard	Graphics, LCD, backlit various keys and	alphanumerical	alphanumerical	alphanumerical	alphanumerical
Operation: Display  Keyboard  Menu controlled	Graphics, LCD, backlit various keys and a touch screen	alphanumerical 10 keys	alphanumerical 10 keys	alphanumerical 10 keys	alphanumerical 10 keys
Operation: Display  Keyboard  Menu controlled  Sample feed	Graphics, LCD, backlit various keys and a touch screen	alphanumerical 10 keys	alphanumerical 10 keys	alphanumerical  10 keys	alphanumerical 10 keys
peration:  Display  D	Graphics, LCD, backlit various keys and a touch screen manual	alphanumerical  10 keys   manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual
Operation: Display  (eyboard  Jenu controlled  Sample feed Password protection  Special Features:	Graphics, LCD, backlit various keys and a touch screen manual	alphanumerical  10 keys   manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual
Operation: Display  Keyboard  Wenu controlled  Sample feed Password protection  Special Features: Weighing-in guidance	Graphics, LCD, backlit various keys and a touch screen • manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual
Operation: Display  Keyboard  Wenu controlled  Sample feed Password protection  Special Features: Weighing-in guidance Statistics	Graphics, LCD, backlit various keys and a touch screen • manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual	alphanumerical  10 keys  manual  •
Operation: Display  Keyboard  Menu controlled  Sample feed Password protection  Special Features: Weighing-in guidance Statistics  Remote control (heater)	Graphics, LCD, backlit various keys and a touch screen • manual •	alphanumerical  10 keys  manual  •	alphanumerical  10 keys  manual  t	alphanumerical  10 keys  manual  o	alphanumerical 10 keys  manual  o
Operation: Display  Keyboard  Menu controlled Sample feed Password protection Special Features: Weighing-in guidance Statistics Remote control (heater)	Graphics, LCD, backlit various keys and a touch screen  manual  •	alphanumerical  10 keys  manual  •	alphanumerical  10 keys  manual  t	alphanumerical  10 keys  manual  t	alphanumerical 10 keys  manual  t
Operation: Display  Keyboard  Menu controlled Sample feed Password protection Special Features: Weighing-in guidance Statistics Remote control (heater) Ash residue Calibration:	Graphics, LCD, backlif various keys and a touch screen  manual  manual  e  e  external	alphanumerical  10 keys  manual   e  e  external	alphanumerical  10 keys  manual     e  e  external	alphanumerical  10 keys  manual    e  e  external	alphanumerical 10 keys  manual  e  external
Operation: Display  Keyboard  Wenu controlled  Sample feed Password protection  Special Features: Weighing-in guidance Statistics  Remote control (heater) Ash residue Calibration: Balance	Graphics, LCD, backlit various keys and a touch screen  manual  metric external 100°C, und 160°C,	alphanumerical  10 keys  manual  e  external  100°C und 160°C,	alphanumerical  10 keys  manual  e  external  100°C und 160°C,	alphanumerical  10 keys  manual  e  external  100°C und 160°C,	10 keys  manual
Operation: Display  Veyboard  Veyboa	Graphics, LCD, backlif various keys and a touch screen  manual  manual  e  e  external	alphanumerical  10 keys  manual   e  e  external	alphanumerical  10 keys  manual     e  e  external	alphanumerical  10 keys  manual    e  e  external	alphanumerical 10 keys  manual  e  external 100°C und 160°C
Operation: Display  Veyboard  Veyboard  Venu controlled  Sample feed Password protection Special Features: Veighing-in guidance Statistics Remote control (heater) Sish residue Salibration: Salance Femperature  Veigellaneous:	Graphics, LCD, backlit various keys and a touch screen  manual  metric external 100°C, und 160°C,	alphanumerical  10 keys  manual  e  external  100°C und 160°C,	alphanumerical  10 keys  manual  e  external  100°C und 160°C,	alphanumerical  10 keys  manual  e  external  100°C und 160°C,	alphanumerical 10 keys  manual  e  external 100°C und 160°C
Jser texts  Operation:  Display  Keyboard  Menu controlled  Sample feed  Password protection  Special Features:  Meighing-in guidance  Statistics  Remote control (heater)  Ash residue  Calibration:  Balance  Femperature  Miscellaneous:  Clock for date and time  PC / Printer interface	Graphics, LCD, backlit various keys and a touch screen  manual  metric external  100°C und 160°C, selectable	alphanumerical  10 keys  manual  manual  e  external  100°C und 160°C, selectable	alphanumerical  10 keys  manual  manual  e  external  100°C und 160°C, selectable	alphanumerical  10 keys  manual  manual  e  external  100°C und 160°C, selectable	alphanumerical  10 keys  manual  manual  e  external  100°C und 160°C selectable



