Mininfra SmarT SW®

Whole Grain and Flour Analyser
with specific weight module

Infracont
www.infracont.hu

Near Infrared Transmission Analyser for fast and precise qualification of whole grain, oil seeds, and flour

Hectoliter Weight Module

Mininfra SmarT SW's detachable specific weight module offers a one step analysis for quality control of crops: the analysis of the chemical parameters and the measurement of the hectoliter weight is performed within the same measurement process.

Special optics

Mininfra SmarT SW applies special NIT optics called SBCS (Single Beam Compensation System): this patented unique optical arrangement provides perfect compensation so no warm up time is needed. Furthermore it allows to keep the machinery simple with very few moving parts and provides small size and light weight combined with high accuracy and stability.

High accuracy

A high speed rotating light beam scans the sample on a large surface and measures the spectrum of the sample at selected wavelengths. During the 1 minute measurement time the instrument makes hundreds of elementary measurements which ensures accurate analysis and excellent repeatability.

Easy handling

The sophisticated electronics, the large 7" colour touchscreen, and the user friendly menu setup provide an ergonomic user interface. Automatic setting of the path length make the handling a very easy task.

Mininfra SmarT SW®

Whole Grain and Flour Analyser
with specific weight module

Infracont
www.infracont.hu

Main features:

- ✓ No sample preparation;
- ✓ No warm-up time;
- ✓ Ready-to-use, transferable, long term stability calibrations;
- ✓ Excellent wavelength accuracy and reproducibility;
- ✓ 7" " touch screen LCD display;
- ✓ Built-in thermal printer;
- ✓ Networking functions for remote access via WIFI/LAN.

Technical data:

Voltage:	88-264 VAC universal input
Power consumption:	35 VA .
Dimensions WxHxD:	290x270x420 mm
Weight:	10 kg
Measuring time:	1 minute
Sensing area:	30 cm2
Sample thickness:	Between 4 and 33mm (automatic)
Sample amount:	ca. 100 cm3 (for wheat)
Operating temperature range:	10 – 45 0C
Optics:	Scanning grating monochromator with SBCS
Wavelength range:	790-1064 nm
Wavelength accuracy:	0,1 nm
Wavelength repeatability:	0,02 nm
Detector:	Si PIN diode
Light source:	Tungsten halogen lamp (12V/20W)
Handling interface:	Touch screen
Display:	7" color LCD, 800x480 pixels
Computer and operation system:	Colibri XScale PXA270, Linux
Printer:	Thermal graphic panel printer
Ports:	USB 2.0 Host, LAN,WIFI

Calibrations:

Product	Moisture	Protein	Gluten	Oil	Oleic acid	Starch	Zeleny-index	W	Ash	HLW
Wheat	+	+	+	-	-	-	+	+*	-	+
Barley	+	+	-	-	-	-	-	-	-	+
Corn	+	+	-	+	-	+	-	-	-	+
Wheat flour	+	+	+	-	-	-	-	-	+	-
Semolina	+	+	-	-	-	-	-	-	+	-
Soymeal	+	+	-	-	-	-	-	-	-	-
Durum	+	+	+	-	-	-	-	-	-	-
Rye	+	+	-	-	-	-	-	-	-	-
Triticale	+	+	-	-	-	-	-	-	-	-
Rapeseed	+	-	-	+	-	-	-	-	-	-
Soybean	+	+	-	+	-	-	-	-	-	-
Rice	+	+	-	-	-	-	-	-	-	-

+: included in the price
-: not available
*: calibrations under development

Distributor: