



S-100 Twin

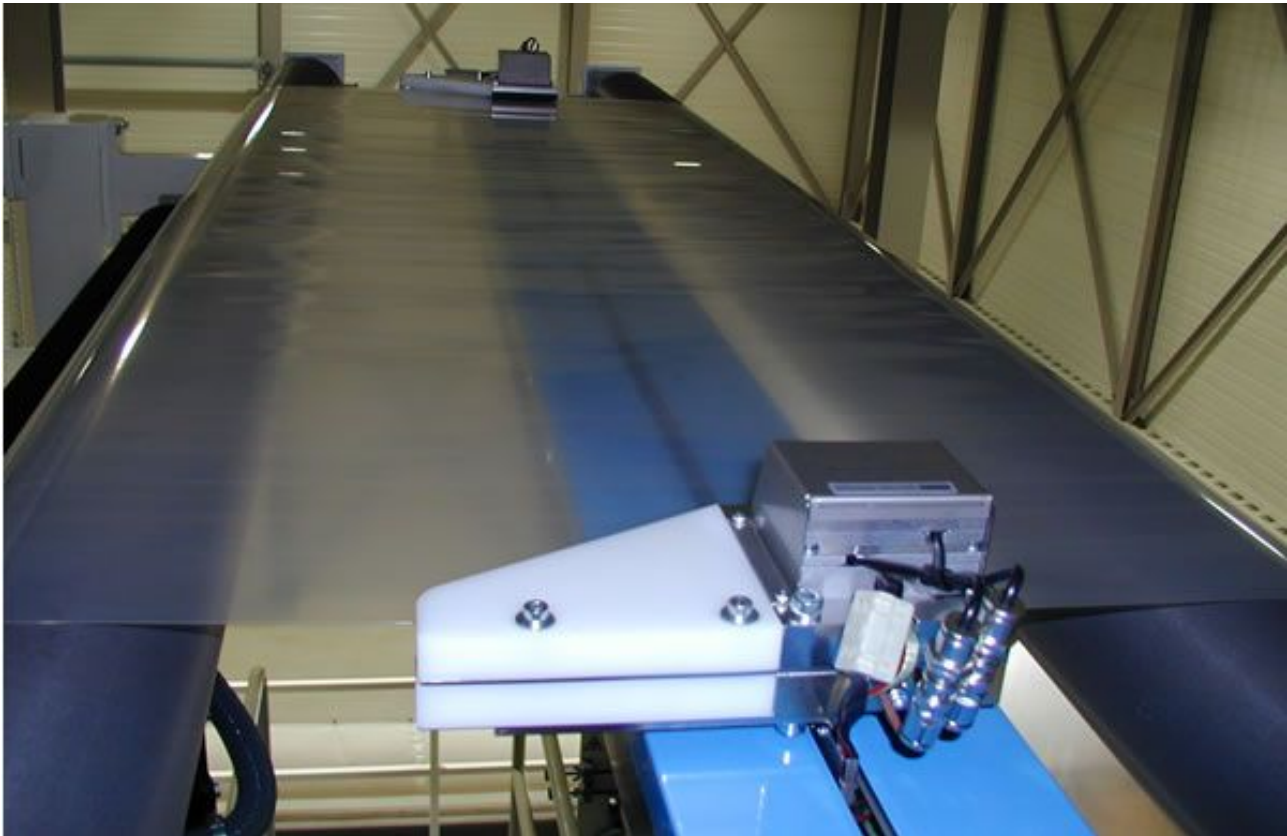
Barrierfilm Gauge

KÜNDIG CONTROL SYSTEMS

Barrierfilm Gauge S-100 Twin

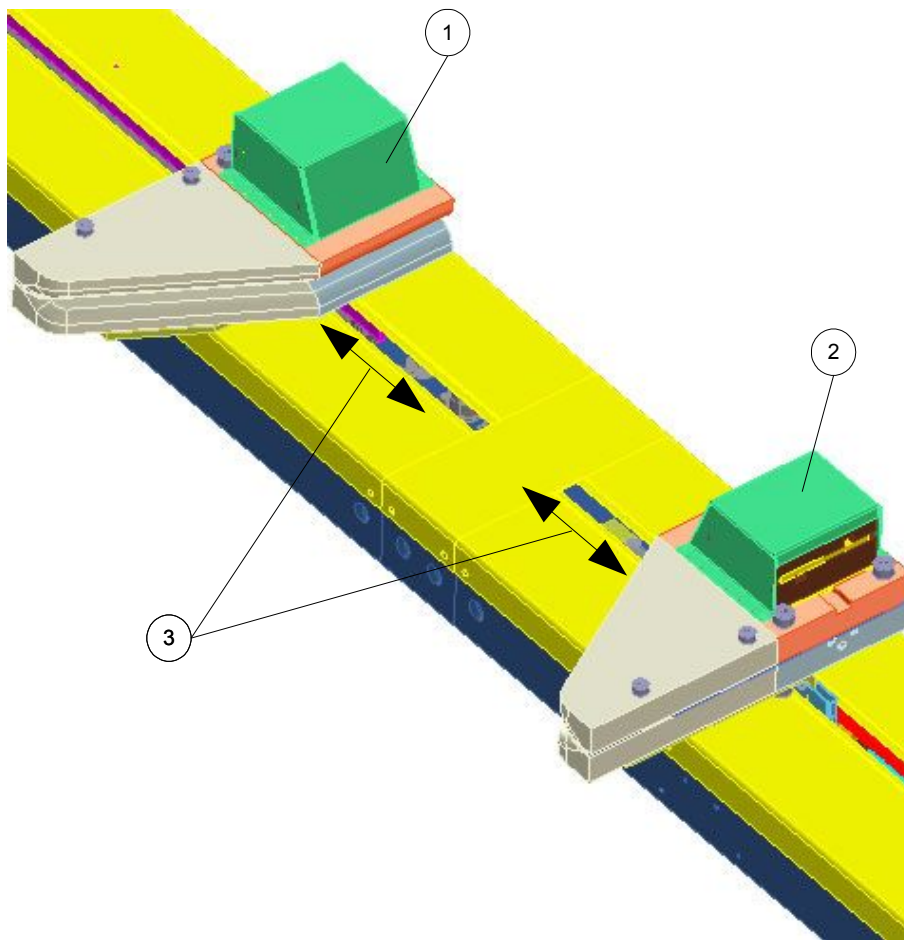
This capacitance gauge measures the thickness and layflat of the film right after the nips. Two sensors move automatically to and with the edges of the web on each side. 2 profiles are measured per one rotation of the nips, calculated for the single film. The controller provides a RS-422 interface with the PCD 2.2 communication protocol.

This system allows to measure Barrierfilms containing PA and EVOH with high accuracy without contact.



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- ① Thickness sensor 1
- ② Thickness sensor 2
- ③ Independent drives for each sensor

Available sizes

1800	Layflat 450mm – 1800mm
2300	Layflat 450mm – 2300mm
2800	Layflat 450mm – 2800mm
3400	Layflat 450mm – 3400mm

(Other sizes are available upon request)

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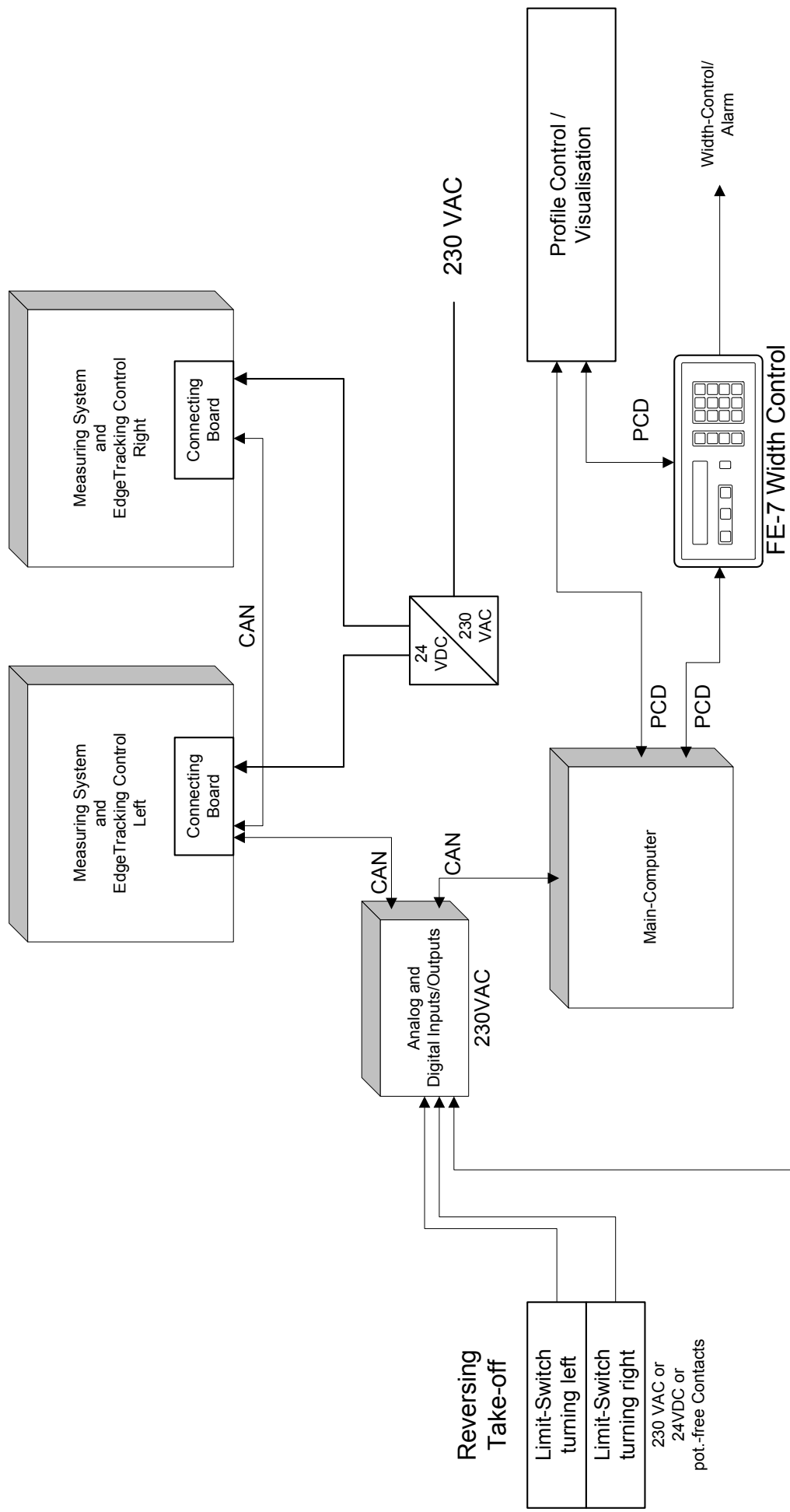
Specifications for barrierfilm gauge S-100 Twin

Measurement principle	Capacitive (suitable for electrically non-conductive materials)	
Operating mode	Non contact	
Frequency	50Mhz / measurement at 400kHz	
Measurement interval	0.2s	
Measurement field	width:	10mm
	height:	80mm
Measurement range (double)	20...800 μ m	
Resolution	0.5 μ m	
Measurement accuracy (average value) at calibration value $\pm 10\%$		
	< 50 μ m	1 μ m
	50...800 μ m	2%
Temperature drift	compensated	
Reference conditions		
	Ambient temperature	23°C $\pm 2^\circ$ C
	Film	LDPE, 50°C
Operating temperature range		
	Data processor	Ambient temperature: -10°C to 55°C
	Measuring head	Ambient temperature: 0°C to 70°C
Transport and storage	-40°C to +70°C	
Mains supply	100 – 240VAC, 50/60Hz	
Zeroing	Automatic (standard: before each rotation)	
Data output		
	serial	RS 422, RS 232

Preliminary! Datas are subject to change!

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Ersetzt durch:

Änd.	Datum	Visum
a	23.03.04	MH

Benennung:

S-100 Twin Principle Scheme

KÜNDIG CONTROL SYSTEMS
Hch. Kündig & Cie. AG CH-8630 Rüti/ZH, Switzerland

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