

# Concentration

On the next pages you will find various Digital Hand Refractometers which are available as single and dual scale models for a broad application range. In addition, we have a Salt Meter for measuring the salt content for example in fluid and semi solid food in our range.



## Refractometer

### Description:

Digital handheld refractometers for measuring the concentration of different substances in liquid and semi-solid products. The devices feature an automatic temperature compensation and are easy to use.

### Applications:

Concentration measurement of:

- Sugar
- Salt
- Alcohol
- Adblue
- Urea



## Salt Meter

### Description:

The SSX 210 Salt Meter is used to measure the salt content in fluid and semi-solid food products, such as meat, cold cuts, cheese, salads etc. The measurement is performed by determination of the electrical conductivity, as it is dependent on the salt content.

### Applications:

Concentration measurement of:

- Salt



## Refractometer and Salt Meter



## DR Digital Hand Refractometers with internal light source



- Wide application scope
- Single and duo scale models
- Zero-calibration with water

### Technical Data

#### Measurement Performance

Automatic Temperature Compensation (ATC) ICUMSA (depending on model)

Working temperature range +5 °C ... +40 °C (+41 °F ... +104 °F)

Sample temperature range +5 °C ... +60 °C (+41 °F ... +140 °F)

Temperature sensor accuracy ±1 °C (+5 °C ... +40 °C)

Measurement time 2 sec.

Sample indicator High, Low or No sample

Protection class IP 65 (water resistant)

Battery 3V 2 x AAA (LR03)

Battery lifetime 10000 readings (minimum)

#### Construction

Prism material Optical glass

Prism seal Silicon rubber and Viton

Sample dish 316 stainless steel

Sample surface diameter 8 mm

Sample volume 0.3 ml

Case material ABS

Type	Channel	Scale	Range	Resolution	Accuracy	ATC	Part No.
DR-10	A	Sugar % (°Brix)	0-54	0.1	±0.2	Bx	1340-5650
DR-11	A	Sugar % (°Brix)	0-54	0.1	±0.2	NONE	1340-5651
DR-60	A	Refractive Index (RI)	1.33-1.42	0.0001	±0.0003	Bx	1340-5652
DR-50	A	Starch %	0-30	0.1	±0.2	Bx	1340-5653
DR-20	A	Seawater SG	1.000-1.090	0.0005	±0.001	NaCl	1340-5654
DR-21	A	Seawater PPT	0-180	1	±1	NaCl	1340-5655
DR-61	A	Wort SG (Sucrose Equivalent)	1.000-1.120	0.0005	±0.001	Bx	1340-5656
DR-22	A	Salinity (% NaCl)	0-28	0.1	±0.2	NaCl	1340-5657
DR-30	A	% Urea (CRC data)	0-40	0.1	±0.2	AUS32	1340-5658
DR-31	A	% Urea (AUS-32)	0-40	0.1	±0.2	AUS32	1340-5660
DR-740	A	% Mass w/w	0-35	0.1	±0.2	Bx	1340-5661
	B	Alcohol Probable (AP)	0-22	0.1	±0.2	Bx	
DR-710	A	% Mass w/w	0-35	0.1	±0.2	Bx	1340-5662
	B	Oechsle (German)	30-130	1	±1	Bx	
DR-711	A	% Mass w/w	0-35	0.1	±0.2	Bx	1340-5663
	B	Oechsle (Swiss)	0-130	1	±1	Bx	
DR-712	A	% Mass w/w	0-35	0.1	±0.2	Bx	1340-5664
	B	KMW (Babo)	0-25	1	±1	Bx	
DR-713	A	% Mass w/w	0-35	0.1	±0.2	Bx	1340-5665
	B	°Baumé	0-28	0.1	±0.2	Bx	
DR-140	A	°Baumé	0-28	0.1	±0.2	Bx	1340-5666
	B	Alcohol Probable (AP)	0-22	0.1	±0.2	Bx	
DR-741	A	% Mass w/w	0-35	0.1	±0.2	Bx	1340-5667
	B	ABV (°Zeiss)	10-135	0.1	±0.5	Bx	
DR-620	A	°Brix	0-54	0.1	±0.2	Bx	1340-5668
	B	Salinity (% NaCl)	0-28	0.1	±0.2	NaCl	
DR-640	A	°Brix	0-54	0.1	±0.2	Bx	1340-5669
	B	Ethylene Glycol °C Protection (freezing point)	0 to -50	1	±1	EG	
DR-630	A	°Brix DEF	0-54	0.1	±0.2	AUS32	1340-5670
	B	Adblue®	0-40	0.1	±0.2	AUS32	
DR-641	A	°Brix	0-54	0.1	±0.2	Bx	1340-5671
	B	Propylene Glycol °C Protection (freezing point)	0 to -50	1	±1	PG	
DR-340	A	DEF Adblue®	0-40	0.1	±0.2	AUS32	1340-5672
	B	Ethylene Glycol °C Protection /freezing point)	0 to -50	1	±1	EG	
DR-341	A	DEF Adblue®	0-40	0.1	±0.2	AUS32	1340-5673
	B	Ethylene Glycol °F Protection (freezing point)	30 to -40	1	±1	EG	
DR-440	A	Ethylene Glycol °C Protection (freezing point)	0 to -50	1	±1	EG	1340-5674
	B	Propylene Glycol °C Protection (freezing point)	0 to -50	1	±1	PG	
DR-441	A	Ethylene Glycol °F Protection (freezing point)	30 to -40	1	±1	EG	1340-5675
	B	Propylene Glycol °F Protection (freezing point)	30 to -40	1	±1	PG	
DR-690	A	Refractive Index (RI)	1.33-1.42	0.0001	±0.0003	NONE	1340-5676
	B	FSII DiEGME ATC	0.0 to 0.25	0.01	±0.02	Bx	

## SSX 210 Salt Meter Set with gold-plated electrodes probe



### Technical Data

Measurement range	0 ... 100
Resolution	1 Digit
Accuracy (at +25 °C / 77 °F)	±1 Digit
Operating temperature	+10 °C ... +40 °C (50 °F ... 104 °F)
Measurement rate	1 s to 15 s, adjustable
Deactivation	Automatically after 5 min., deactivatable
Protection class	IP 54
Dimensions (L x W x H)	100 x 46 x 25 mm
Housing material	ABS
Probe	2-conductor-measurement probe with gold-plated electrodes
Probe cable	Silicone
Weight	Approximately 200 g
Battery	Lithium 3 V / 1 Ah, type CR2477
Battery lifetime	Up to 5 years, depending on use

- Automatic deactivation
- Approximately 5 years battery life time

Type	Description	Part No.
SSX 210-Set	Salt meter set (consisting of salt meter and case)	1340-5211

## Accessories for SSX 210



**AG 140** Protective cover for handheld devices, red

Type	Description	Part No.
AG 140	Protective cover for handheld devices, red	1340-5005