



Digital Refractometers of the DR Family

HIGHLY RELIABLE DEVICES FOR A WIDE APPLICATION SCOPE


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Single or dual scale models provide a wide range of refractive index and Brix measurements to determine:

- Sugar content
- Starch content
- Salinity

Excellent for use in many applications:

- Wine
- Beer
- Antifreeze
- Seawater
- Canned foods
- Coolant

Special features make measurements easy and reliable

- Ergonomic design
- Zero calibration with distilled water
- Wide application scope
- Shallow prism dish
- Single and duo scale models

Measurement Performance

Automatic Temperature Compensation (ATC)	ICUMSA (model dependent)
Working temperature range	5 °C to 40 °C
Sample temperature range	5 °C to 60 °C
Temperature sensor accuracy	±1°C (5 °C to 40 °C)
Measurement time	2 seconds
Relative humidity	95% rH (non condensing)
Battery power indicator	Yes
Sample indicator	High, Low or No sample
IP rating	IP65 water resistant
Battery type	3V 2 x AAA (LR03)
Battery life expectation	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	Acrylonitrile Butadiene Styrene (ABS)

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Digital Refractometers DR Family

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

* Automatic Temperature Compensation (ATC)

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