

# Cole-Parmer® Handheld Refractometers



## Quick and easy operation with reliable measurements

- Convenient, compact design fits in pocket or palm of hand
- Easy and immediate calibration via zero adjustment for precise results all the time
- No more worrying about temperature fluctuations on models with built-in automatic temperature compensation (ATC)

## Analog Refractometers

- Many Brix range options available including models with multiple Brix scales
- Easy calibration via the calibration screw for enhanced accuracy

## Digital Refractometers

- No more reading errors with easy-to-read LCD
- Fast performance—never wait for readings again
- Rugged, waterproof design with IP65 rating

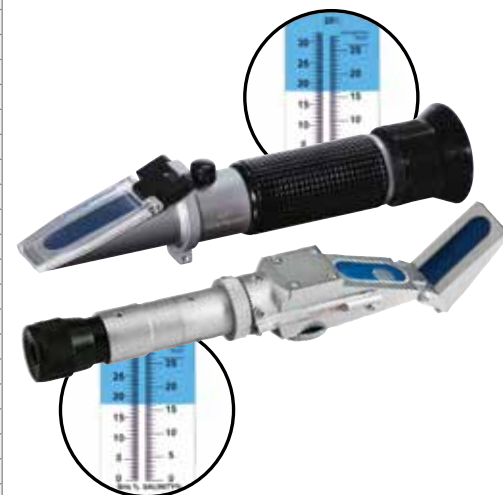
## Digital Refractometers

Range	Resolution	Accuracy	ATC	Catalog number
0 to 45% Brix, 1.3330 to 1.4098 RI	0.1, 0.0001	±0.2, ±0.0003	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-48</a>
0 to 85% Brix, 1.3330 to 1.5100 RI	0.1, 0.0001	±0.2, ±0.0003	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-55</a>
0 to 95% Brix, 1.3330 to 1.5400 RI	0.1, 0.0001	±0.2, ±0.0003	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-56</a>
0 to 28% salinity, 1.330 to 1.4100 RI	0.1, 0.0001	±0.2, ±0.0003	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-49</a>
0 to 45% Brix, 0 to 28% salinity, 1.3330 to 1.4100 RI	0.1, 0.1, 0.0001	±0.2, ±0.1, ±0.0003	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-57</a>
0 to 14 g/dl serum protein, 1.3330 to 1.3900 RI	0.2, 0.0001	±0.2, ±0.0003	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-51</a>
0 to 60% v/v, w/w ethyl alcohol	0.1	±0.3	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-52</a>
0 to 60% v/v, w/w isopropyl alcohol; -58 to 32°F (-50 to 0°C)	0.1	±0.5	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-53</a>
0 to 75% ethylene glycol, -58 to 32°F (-50 to 0°C)	0.1	±0.3, ±1°F, ±0.5°C	41 to 104°F (5 to 40°C)	<a href="#">ML-81150-54</a>



## Analog Refractometers

Range	Resolution	Accuracy	ATC	Catalog number
0 to 10% Brix	0.10%	±0.1%	—	<a href="#">ML-81150-23</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-34</a>
0 to 18% Brix	0.10%	±0.1%	—	<a href="#">ML-81150-24</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-35</a>
0 to 32% Brix	0.20%	±0.2%	—	<a href="#">ML-81150-25</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-36</a>
0 to 60% Brix	0.50%	±0.3%	—	<a href="#">ML-81150-29</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-26</a>
28 to 62% Brix	0.20%	±0.2%	—	<a href="#">ML-81150-31</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-37</a>
0 to 80% Brix	0.50%	±0.3%	—	<a href="#">ML-81150-31</a>
0 to 50%, 50 to 80% Brix	0.50%	±0.3%	—	<a href="#">ML-81150-30</a>
45 to 82% Brix	0.50%	±0.3%	—	<a href="#">ML-81150-27</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-38</a>
0 to 90% Brix	0.50%	±0.3%	—	<a href="#">ML-81150-32</a>
0 to 42%, 45 to 71%, 71 to 90% Brix	0.20%	±0.2%	—	<a href="#">ML-81150-33</a>
58 to 92% Brix	0.20%	±0.2%	—	<a href="#">ML-81150-28</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-39</a>
0 to 28% salinity	0.20%	±0.2%	—	<a href="#">ML-81150-41</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-45</a>
0 to 28% salinity; 0 to 32% Brix	0.20%	±0.2%	—	<a href="#">ML-81150-43</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-47</a>
0 to 100% salinity; 1.000 to 1.070 RI	1%; 0.005	±0.5%; ±0.001	—	<a href="#">ML-81150-40</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-44</a>
0 to 100% salinity; 1.000 to 1.070 RI; 0 to 10% Brix	1%; 0.005; 0.10%	±0.5%; ±0.001; ±0.1%	—	<a href="#">ML-81150-42</a>
			50 to 86°F (10 to 30°C)	<a href="#">ML-81150-46</a>



### Accessories

[ML-06226-13](#) Transfer pipette, 1.5 mL. Box of 500

[ML-09376-00](#) Replacement batteries for digital units, AAA. Pack of 12

[ML-17105-00](#) NIST-traceable calibration with data for refractometers

## Specifications for Digital Refractometers

**Operating temperature range:** 32 to 104°F (0 to 40°C)

**Temperature accuracy:** ±1°F (0.5°C)

**Sample volume:** 0.3 mL

**Response time:** ≤3 seconds

**Power:** two AAA batteries (included)

**ColeParmer.com**

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