

# KERN ORM 1BR

# KERN

Digital measurement of refraction index for universal application



## Category

|                  |                       |
|------------------|-----------------------|
| Brand            | Optics                |
| Product category | Refractometer         |
| Product group    | Digital refractometer |
| Product family   | ORM-BR                |

## Measuring System

|   |                       |
|---|-----------------------|
| Automatic temperature compensation (ATC)                      | ✓                     |
| Measuring method  | Total reflection      |
| Area of application   | Beer                  |
| Appropriate calibration liquid                                | 0 % (distilled water) |
| Measurement temperature [Min] (°C)                            | 0 °C                  |
| Measurement temperature [Max] (°C)                            | 40 °C                 |
| Brix scale  | ✓                     |
| Readout Brix  | 0,1 %                 |
| Measuring range Brix [Min]                                    | 0 %                   |
| Measuring range Brix [Max]                                    | 50 %                  |
| Accuracy Brix   | ±0,2 %                |
| Scale for Refractive index                                    | ✓                     |
| Readout refractive index                                      | 0,0001 nD             |
| Measuring range refractive index [Min]                        | 1,3330 nD             |
| Measuring range refractive index [Max]                        | 1,4200 nD             |
| Accuracy refractive index                                     | ±0,0003 nD            |
| Scale original hopped wort (specific gravity)                 | ✓                     |
| Readout original hopped wort (specific gravity)               | 0,001                 |
| Measuring range original hopped wort (specific gravity) [Min] | 1,000                 |
| Measuring range original hopped wort (specific gravity) [Max] | 1,130                 |

|  |         |
|--|---------|
| Accuracy original hopped wort (specific gravity) | ±0,002  |
| Scale Plato                                      | ✓       |
| Readout Plato                                    | 0,1 °P  |
| Measuring range Plato [Min]                      | 0 °P    |
| Measuring range Plato [Max]                      | 31 °P   |
| Accuracy Plato                                   | ±0,3 °P |

## Approval

|         |   |
|---------|---|
| CE mark | ✓ |
|---------|---|

## Construction

|                      |  |
|----------------------|--|
| Dimension (W×D×H)    | 121×58×25 mm                           |
| Refractometer type   | Handheld refractometer                 |
| Scale - Display type | Digital                                |
| Material prism       | ZLaF3 lanthanum flint glass nd=1.85544 |

## Functions

|  |        |
|--|--------|
| Auto-off interval(s) in battery mode/rechargeable battery mode | 60 sec |
| IP protection - complete device                                | IP65   |
| Averaging measurement  | ✓      |
| Averaging measurement amount                                   | 15     |

## Power Supply

|                            |                    |
|----------------------------|--------------------|
| Supplied power supply      | Battery            |
| Battery / accumulator type | Alkali(-Manganese) |
| Battery connection         | Pad + Spring       |
| Battery capacity           | 1.300 mAh          |
| Battery voltage            | 1,5 V              |

## Environmental conditions

|                           |       |
|---------------------------|-------|
| Storage temperature [Min] | -5 °C |
| Storage temperature [Max] | 40 °C |

## Packing & Shipping

|  |                |
|--|----------------|
| Dimensions transport container (W×D×H) | 170×110×50 mm  |
| Readability force [d] (N)              | 1 d            |
| Dimensions packaging (W×D×H)           | 170×110×50 mm  |
| Net weight                             | 0,14 kg        |
| Shipping method                        | Parcel service |
| Net weight approx.                     | 0,15 kg        |
| Gross weight approx.                   | 0,35 kg        |
| Shipping weight                        | 0,31 kg        |

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## Services (optional)

|  |         |
|--|---------|
| Article number for factory calibration | 961-290 |
|--|---------|

## Pictograms

### STANDARD

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