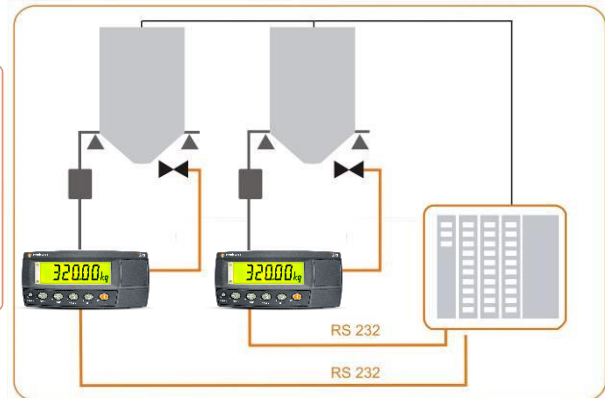# R320 ABS Panel Mount and Full Housing - Data Sheet



- Trade Approved Australia/Europe/USA

- AC, DC 7-24V and rechargeable NiMH battery options

- 20mm (0.8in) LCD display with LED backlight

- Versatile mounting options

- Tough, compact ABS housing

- rinLINK connector

- IP65 rated housing

The R300 series of indicators builds on over 15 years of design experience to create a series of cost effective reliable products that are ideal for use in mobile applications such as forklifts, platforms, inside truck cabs, crane scales and OEM applications. The compact housing and versatile power supply options make them suitable for basic weighing through to OEM applications. They are ideal for basic weight-control or level-control functions. R320 is an ABS housing with IP65 rating that is available in either a panel mount version or a full housing version using M12 connectors for simplified installation.

- **Flexible mounting options**: desk, wall and pole mounting.

- **Wide DC operation (7-24V)** to suit a variety of onboard OEM applications. Eliminates the need for third party power supplies saving on system complexity and cost.

- **Long life rechargeable battery** options ideal for mobile installations allowing for operator flexibility.

- **rinLINK** magnetically coupled link on front fascia for easy access in situ for updates/setup of the indicator, saving the installer time and effort.

- **IP65 rated housings**: Dust tight and protection against projected water, increasing reliability and indicator life time.

- **Trade approved** in Australia, Europe and USA. Products are export ready with approved componentry.



## Smart Weighing

**Flexible mounting and power options**

- Desk stand with 4xAA battery compartment

- IP65 rear boot

- Rechargeable battery option

- Wall mounting bracket to work with desk stand or rear boot.
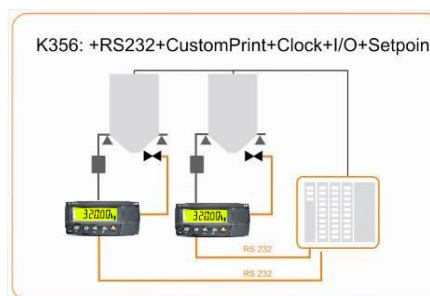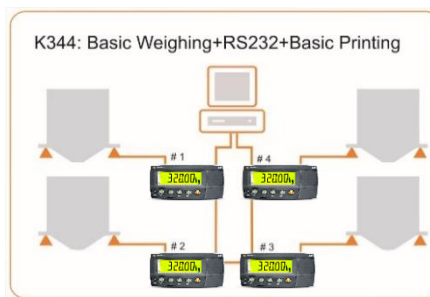
*now that's smart weighing…*

The R300 series indicators have a range of firmware options from most basic functionality (K342) through to full set point functionality and custom printing at the top end (K356).

K356 Cross Grades: Certain features are specifically available in the cross graded versions of K356 firmware, see table below for feature set. These can be downloaded off the website and it will not require a passcode.

| Firmware Version | | K342 | K344 | K346 | K354 | K356 | K356-C1 | K356-C2 | K356-C3 | K356-C4 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Print (Serial RS232) | | - | Basic | | Advanced | | K356 Cross Grades | | | | |
| **Function Key** | Counting | - | - | - | - | C | - | - | S | - | R300 series firmware comparison |
| | Manual Hold | S | S | S | - | C | S | S | - | S | |
| | Peak Hold | - | - | - | - | C | S | - | - | S | |
| | Totalisation | - | - | - | S | S | S | S | S | S | |
| | Medical Tare | - | - | - | - | C | - | - | S | - | |
| Ring Network | | - | S | S | S | S | S | S | S | S | |
| Bluetooth Accessory | | - | A | A | A | A | A | A | A | A | |
| Remote Input | | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | |
| Clock Calendar | | - | - | - | S | S | S | S | S | S | |
| Set Point Outputs | | - | - | 2^ | 2^ | 2^^ | 2^^ | - | - | - | |
| Units lb/ kg Switching | | S | S | S | S | S | S | S | S | S | |
| Units lb/ kg/ oz/ g Switching | | S | S | S | S | S | S | S | S | S | |
| Gravity Compensation | | - | - | - | S | S | - | - | S | S | |
| Linearisation | | S | S | S | - | - | - | - | - | - | |
| Animal Weighing | | - | - | - | - | C | - | S | - | - | |
| Quick Calibration | | S | S | S | S | S | S | S | S | S | |

S - Standard Accessory    A - Optional Accessory    ^ - Basic Over/ Under Setpoints    ^^ - Advanced Set Points

C – Cross Grade    C1 – K356-PEAK    C2 – K356-LIVE    C3 – K356-COUNT

C4 – K356-MED



K342: Basic Weighing



K344: Basic Weighing+RS232+Basic Printing



K354: +RS232+CustomPrint+Clock



K356: +RS232+CustomPrint+Clock+I/O+Setpoint

## R320 Specification Table

| | R320 ABS Panel Mount \| R320 ABS Full Housing | | | | |
|---|---|---|---|---|---|
| **Resolution** | Up to 60,000 divisions, minimum of 0.25µV/division | | | | |
| **Zero Cancellation** | ± 2.0mV/V | | | | |
| **Span Adjustment** | 0.1mV/V to 3.0mV/V full scale | | | | |
| **Excitation** | 5 V for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield)<br><br>Max total load cell resistance: 3,500Ω (4x350Ω Nontrade 8x350Ω) | | | | |
| **A/D Type** | 24bit Sigma Delta with 8,388,608 internal counts<br>20 updates/second | | | | |
| **Operating Environment** | Temperature: –10° to +50°C ambient (14° to 122° F), Humidity: <90% non-condensing, IP65 when panel mounted | | | | |
| **Display** | LED Backlit LCD with six 20mm (0.8") high digits with units and annunciators | | | | |
| **Setup and Calibration** | Full digital with visual prompting in plain messages | | | | |
| **Digital Filter** | Sliding window average from 0.1 to 4.0 s | | | | |
| **Zero Range** | Selectable from ± 2% to ± 100% Full Scale | | | | |
| **Standard Power Input** | 7 to 24VDC, 4.8, 9.6,12 and 24V batteries (2.5 VA max)<br><br>ON/OFF key with memory feature | | | | |
| **Variants** — AC | AC Plug pack: 110/240VAC 50/60Hz in 12VDC 1.5A out | | | | |
| **Variants** — Battery | 12V battery pack (rechargeable NiMH) (using M3117 or M3118 accessory) | | | | |
| | 4 x AA batteries (G Version or using M3001 accessory) | | | | |
| **Case Materials** | ABS Housing | | | | |
| **Packing Weights** | Panel Mount Indicator: 0.25kg (9oz), Full Housing: 0.42kg (14.8oz) | | | | |
| **Optical Data Communications** | rinLINK - magnetically coupled infra-red communications<br><br>Conversion cables available for RS232 or USB | | | | |
| **4 Connector Full Housing** | M12 Loadcell pigtail, 3 Pin power, M12 Female Serial Port, M12 Male Digital out | | | | |
| **2 Connector Full Housing** | M12 Loadcell pigtail, 3 Pin power | | | | |
| **M12 Serial and Communication Connectors** | 60V AC/DC, 4A, IP67 rating | | | | |
| **3 Pin Power Connector** | DC 20A, IP67 rating | | | | |

| | K342 | K344 | K346 | K354 | K356/ K356-Cx |
|---|---|---|---|---|---|
| **Serial Outputs** | - | RS232 automatic transmit, network or printer outputs.<br>Transmission rate: 2400, 4800, 9600 or 19200 baud | | | |
| **Functions** | Manual Hold | | | Unit switching, totalizing, high resolution, display test | |
| **Assignable Function Keys** | Fixed to Hold | | | 1 | |
| **Battery Backed Clock Calendar** | - | | | Battery life 10 years minimum | |
| **Input/Outputs** | - | | 2 Outputs-<br>isolated transistor drive outputs (300mA total at 50VDC) | | |
| | - | | 1 Input | | |
| **Set points** | - | | 2(Basic) | | 2(Advanced) |
| **Approvals** | 4,000 d @0.8uV/d NMI (S-420), OIML R76<br>10,000d III/III L NTEP 08-072 A1 | | | | |
| | FCC, CE, C-tick, | | | | |

Specifications may change at any time without notice.

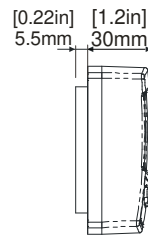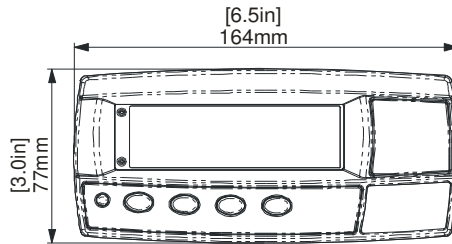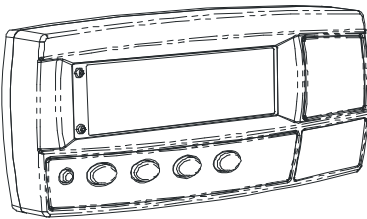## R320 Accessories – Rear Boots

[2.2in]
57mm
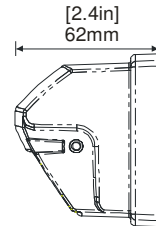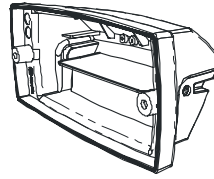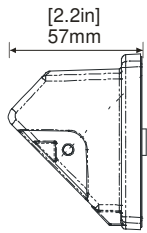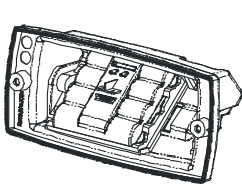
**M3001**
ABS boot with integral desk mount and mounting bracket
support with battery compartment for 4AA batteries

[2.4in]
62mm

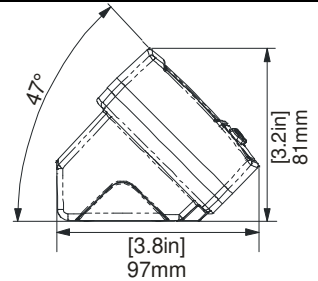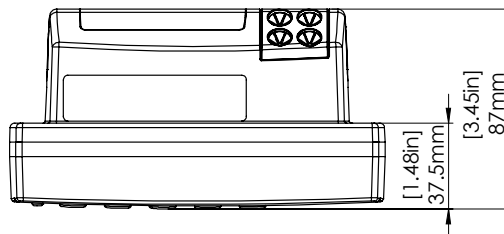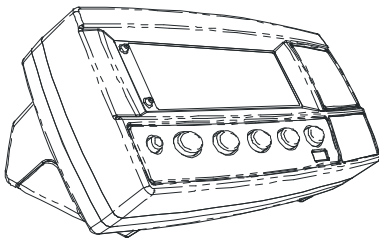**M3003**
IP65 boot also used for rechargeable battery option

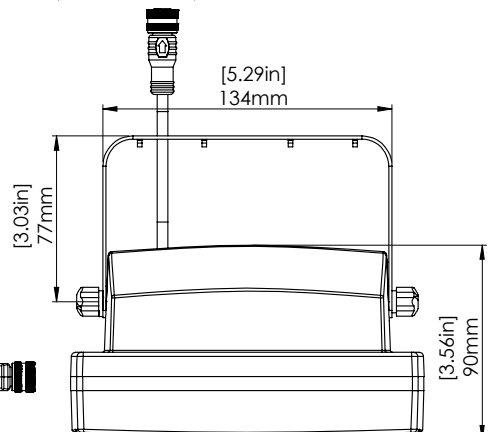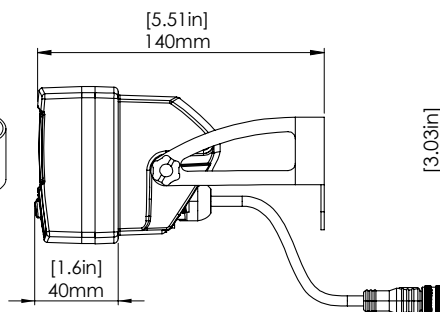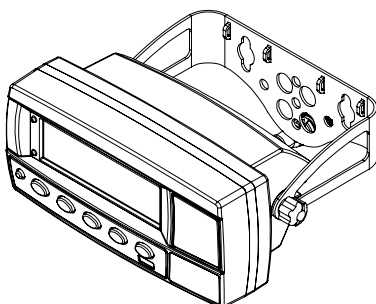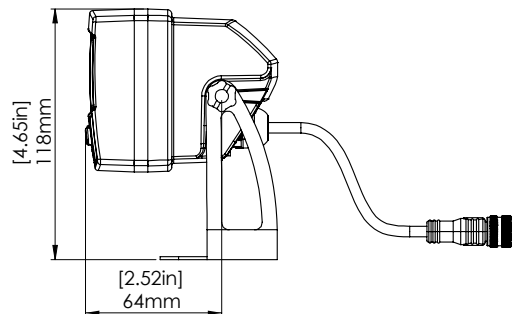## R320 Panel Mount

[6.5in]
164mm

[3.0in]
77mm

[0.22in]
5.5mm

[1.2in]
30mm

## R320 with Rear Boot Desk Stand (M3001)

[3.45in]
87mm

[1.48in]
37.5mm

47°

[3.2in]
81mm

[3.8in]
97mm

## R320 Full ABS Housing

[4.65in]
118mm

[5.29in]
134mm

[2.52in]
64mm

[5.51in]
140mm

[1.6in]
40mm

[3.03in]
77mm

[5.29in]
134mm

[3.56in]
90mm
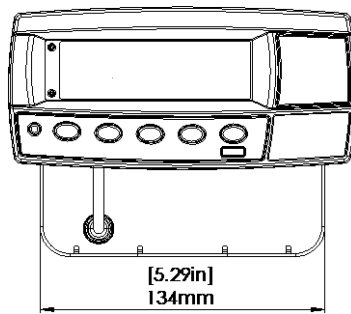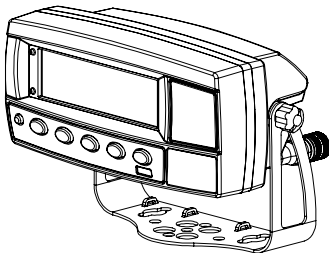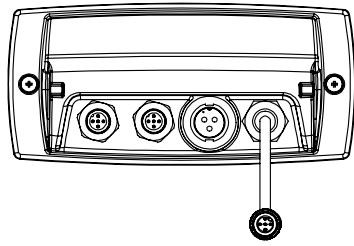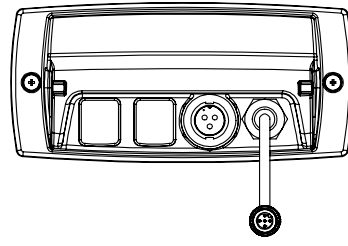
| | |
|:---:|:---:|
|  |  |
| **4 Connector Full ABS Housing Rear** | **2 Connector Full ABS Housing Rear** |

| R320 Brackets | | |
|:---:|:---:|:---:|
|  |  |  |
| **M3007** | **M3014** | **M3002** |

Specifications are subject to variation for improvement without notice. Illustrations are indications only and variation may be evident between products.