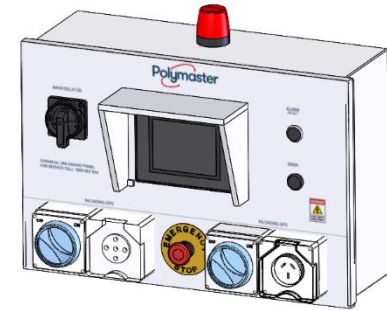


MULTIFUNCTIONAL CONTROLLER

RADAR



| SPECIFICATION | PBTT415-230 |
|--|-----------------------------------|
| Manufacturer | Polymaster |
| Enclosure | |
| Material of construction | Glass Reinforced Polymer |
| Dimensions – W x H x D (mm) | 600 x 500 x 345 |
| Tare Weight (kg) | NA |
| Colour | Light Grey |
| IP rating | IP65 |
| Alarms | |
| High level alarm signal | Visual and Audible |
| Low level alarm signal | Visual |
| Bund alarm signal | Visual and Audible |
| Safety | |
| High level cut-off | Yes |
| In-loading | |
| GPO(V), (Amps) – Quantity, (Pin Arrangement) | 415V, 20 Amps – 1, (5 Round Pins) |
| GPO(V), (Amps) – Quantity, (Pin Arrangement) | 230V, 15 Amps – 1, (3 Flat Pins) |
| Volt free contact | |
| Bund (float) | Standard |
| Low (sensor) | Standard |
| High (sensor) | Standard |

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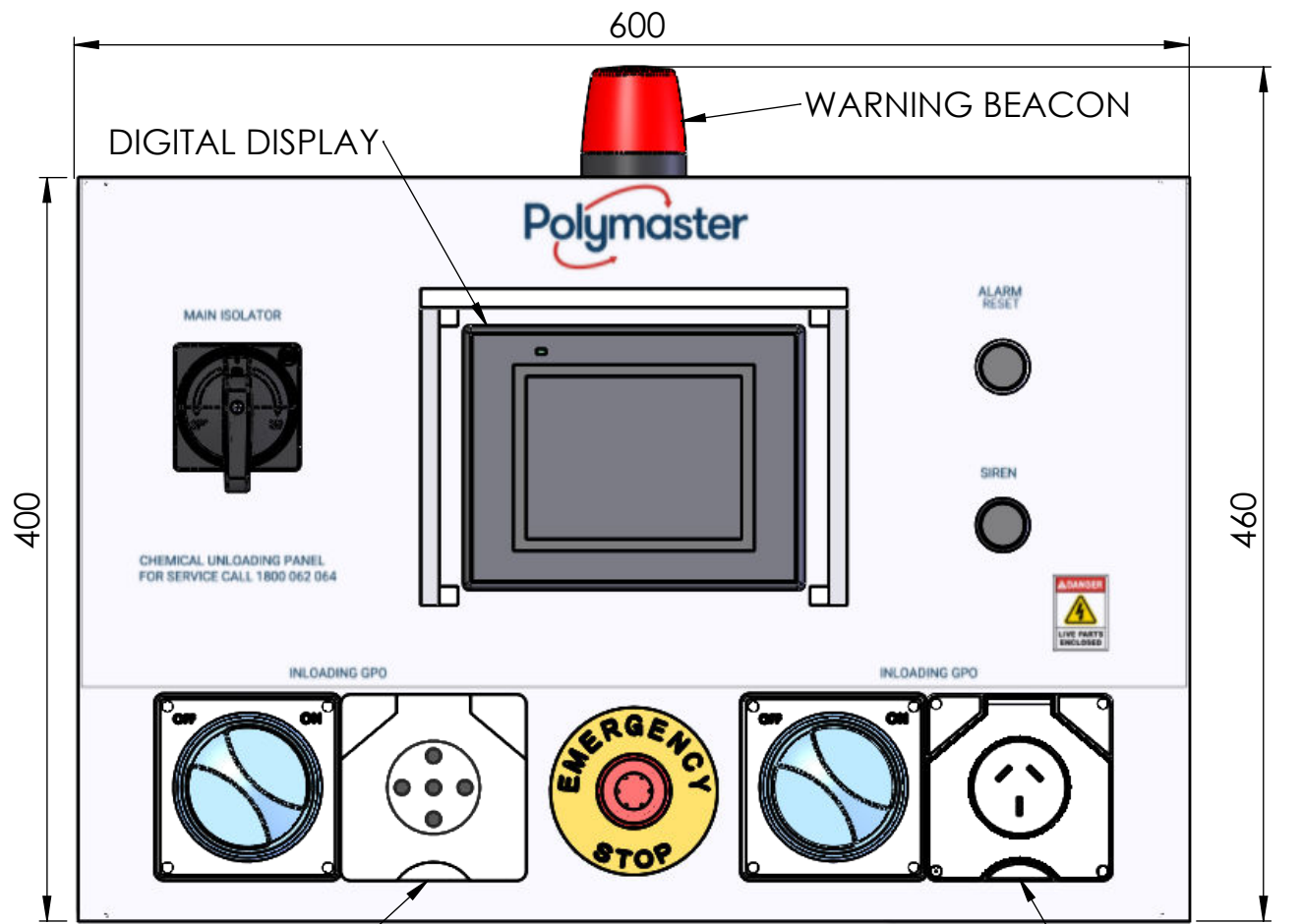
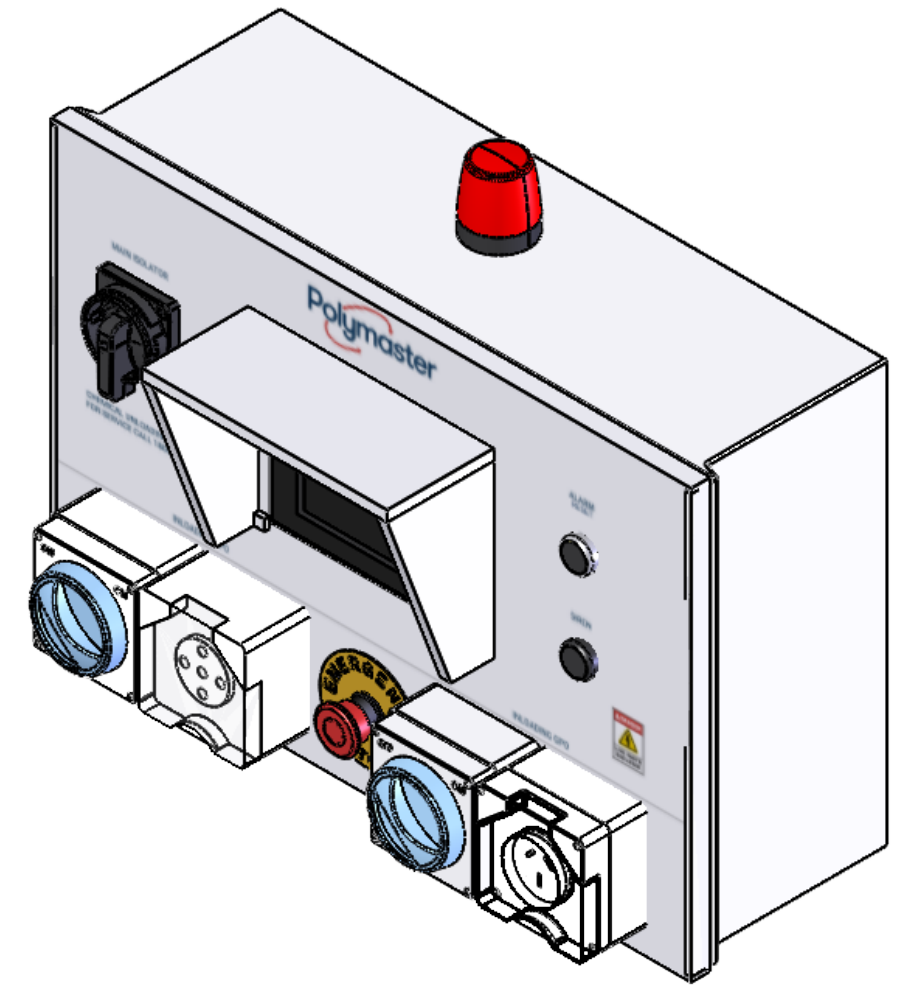
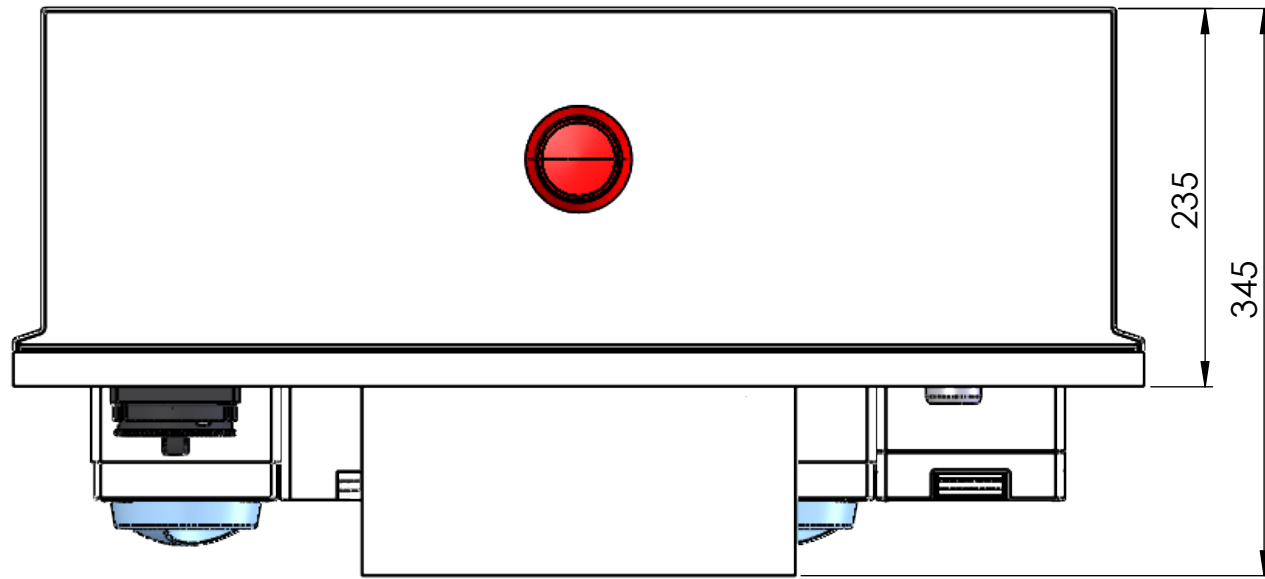
| SPECIFICATION | PBTT415-230 |
|--------------------------------------|--|
| Hi-high (sensor) | Standard |
| Low (float) | Optional |
| Hi-high (float) | Standard |
| Radar Sensor | |
| Make / Model | VEGA / C11 or SIEMENS / LR100 |
| Type | W Band FMCW Radar |
| Measuring range / Angle | 0 - 8m (accuracy +/- 5mm) / 8° |
| Vessel pressure | -1...+3 bar |
| Process temperature | -40...+60°C |
| Frequency | 80GHz |
| Power | 12...35 V DV – 4...20 mA |
| Material of construction (Enclosure) | PVDF |
| Weight (kg) | 0.5kg |
| Cable length (m) | 8 |
| Connection | 1 1/2" BSPT |
| IP rating | IP68 |
| Connectivity | Bluetooth |
| Programming | mobile IQ app that provides interface to configure, setup & monitor the sensor |
| Display | |
| HMI Make & Model | OMRON / NB5Q-TW01B |
| Display size / type | 5.6" / TFT Colour QVGA |
| Ambient temperature | -20 – +60°C |
| Input | 1 x Ethernet |
| Output | 2 x USB 2 x RS232 |
| PLC Control | 18 x DC Inputs 12 x Relay Outputs 1 x Ethernet 2 x 4-20mA Inputs via expansion 1 x 4-20mA Output via expansion |
| Power supply | 120 W, 24VDC, 5A |
| Material of construction | Polycarbonate |

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| SPECIFICATION | PBTT415-230 |
|------------------------|---|
| IP rating | IP65 |
| Float switch | |
| Model | FTS-20 (52010122) |
| Description | Floating switch |
| Floating body material | Polypropylene |
| Cable material | PVC |
| Function | Inductive proximity switch with switching ball, closed when floating |
| Switching angle | Upper switching point: +25° ±6° Lower switching point: +14° ±3°, measured to the horizontal |
| Note | Require float weight (52010127) Weight is Polyamide coated |

**Note: The above Multifunctional Controller needs to be installed on a circuit equipped with RCD protection.
RCD Protection is *not* included within this Multifunctional Controller.**

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415V OUTLET MULTIFUNCTIONAL CONTROLLER - RADAR 230V OUTLET

PRODUCT CODE: PBTT415-230

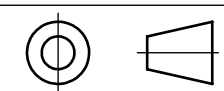
ALL TOLERANCES UNLESS OTHERWISE STATED $\pm 10\text{mm} / \pm 1^\circ$

DO NOT SCALE, USE DIMENSIONS. ALL DIMENSIONS ARE IN mm

| REV | DRAWN | DATE | PARTICULARS |
|-----|-------|------------|----------------|
| B | JS | 12/06/2024 | CHANGED TO PLC |
| A | RF | 02/02/2021 | FIRST RELEASE |


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 © POLYMASTER GROUP

| DESCRIPTION | | MULTIFUNCTIONAL CONTROLLER | |
|--------------|---|--|-------------|
| PRODUCT CODE | | PBTT - POWER BOX - TRUCK FILL / TRANSFER PANEL | |
| MATERIAL | | GLASS REINFORCED POLYMER | |
| COLOUR | | | |
| LEVEL | A | DRAWING No. | PBTT415-230 |

| SCALE: 1:4 | |
|---------------|---|
| A3 SHEET SIZE |  |
| DRAWN | RF |
| 2/02/2021 | 3/3 Rev: B |