

For engineering and procurement

One terminal per line, built for the floor.

The two sizes, what the site supplies, and how the terminal is powered, protected and kept apart from your machine controls.

What it is

The Augos Operator Terminal is an industrial touchscreen computer that sits beside the operator, in a stainless-steel enclosure. It counts with the line's pulse sensor, detects and times every stop, and asks the operator for the reason. It sends every event to the Augos platform over its own 4G, so a line needs no PLC connection.

Two sizes, one terminal

	10.1-INCH	15.6-INCH
Screen	1280 × 800, 400 cd/m ² . Capacitive touch, hardened glass.	1920 × 1080, 450 cd/m ² . Capacitive touch, hardened glass.
Terminal, bare	258 × 172 × 61.5 mm, about 1.3 kg	388 × 238 × 67.5 mm, about 2.6 kg
Enclosure, outside	400 × 300 × 120 mm	527.5 × 363.5 × 120.5 mm
Suits	Most lines, where the operator stands at the screen	Long lines, where the screen is read from a few metres away

Dimensions are width × height × depth. Both sizes run the same screens and are mounted the same way.

Electrical and environment

Power on site	One 220 V point on its own 2 A breaker near the bottleneck, so the unit can be isolated. The power supply sits inside the enclosure; its details are <i>available on request</i> .
Terminal power	10.1-inch: 9 to 36 V DC, 24 W at most. 15.6-inch: 12 to 24 V DC, 36 W at most. Both are reverse-polarity and overload protected.
Sensor inputs	Isolated digital inputs for the count sensor. Two 12 V DC pulse inputs, so one terminal can watch two points on a line.
Other inputs and outputs	Isolated digital outputs, isolated serial ports (RS232/RS485) and CAN ports, for future use.
Operating range	−20 to +50 °C. 5 to 95% humidity, non-condensing. Fanless.
Ingress protection	IP65 front panel and enclosure: dust-tight and protected against water jets.
Pulse sensor	A separate device, sealed to IP67. Note the terminal is IP65.

Machine controls

None. Nothing is read from or written to your PLC or SCADA. The pulse sensor counts passing product, so the terminal works on any machine, old or new, including machines with no PLC at all.

Enclosure

	10.1-INCH	15.6-INCH
Material	304 stainless steel, IP65	304 stainless steel, IP65, 1.2 mm sheet
Outside size	400 × 300 × 120 mm	527.5 × 363.5 × 120.5 mm: a 95 mm body and a 15 mm door
Door locks	Two, on the right of the door	Two, on the left of the door
Window	The touchscreen sits behind a window in the door	A 380.5 × 230.5 mm screen window in the door
Cable entries	<i>Available on request</i>	Three along one long side, 50 mm apart
Weight	<i>Available on request</i>	About 9.8 kg
Drawing, mounting, gland sizes	<i>Available on request</i>	Mounting and gland sizes <i>available on request</i>

Connectivity

Mobile data	4G built in, two external aerials. Augos supplies the data SIM at no cost, so no plant network is needed.
Plant network, optional	Gigabit Ethernet, a second 10/100 Ethernet port and dual-band Wi-Fi (2.4 and 5 GHz), with your IT team's sign-off.
Firewall	See AF-03, IT and network.

Processor and memory

Processor	Quad-core 64-bit at 2.4 GHz
Memory	8 GB RAM
Storage	64 GB eMMC on board, expandable to 512 GB (M.2 NVMe)
Clock	Real-time clock with backup, so timestamps hold through a power cut

What is in the box

- ✓ The Augos Operator Terminal
- ✓ Three compression glands
- ✓ The photoelectric pulse sensor, with its cable, bracket and reflector

You supply the 220 V point and mount the sensor and terminal, with our installation guidance.

When the network drops

Every pulse and every operator entry is written to the terminal's own storage first. While a connection exists, it syncs to the platform roughly every ten minutes. If the link drops, it keeps measuring at full resolution and uploads the backlog in order when the link returns.

Managed from the platform

Stop reasons, products, jobs, Standard Allowed Times, shift maps, diagnostics and firmware are managed from the Augos platform. Augos pushes changes over the air: no site visit, no USB stick. A line is live within 48 hours of the kit arriving.

Ownership and replacement

- ✓ The terminal, sensor and enclosure are Augos property, included in R4,950 per line per month, ex VAT
- ✓ Augos replaces the terminal free after every 36 months at the full rate
- ✓ One-year warranty; the hardware comes back to Augos when a plan ends