

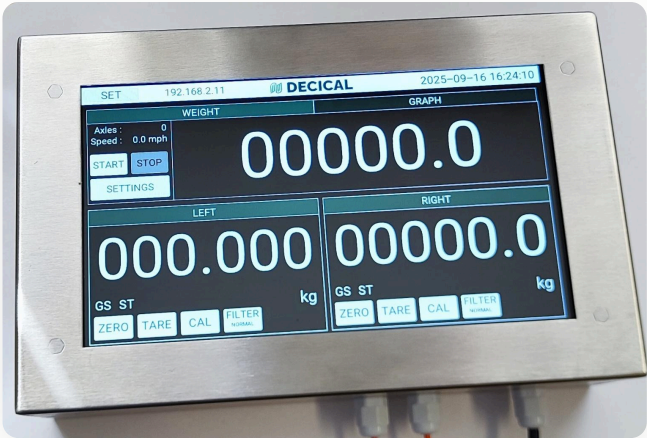
10.1" TOUCH

STAINLESS STEEL

NEXUS

Intelligent, programmable weighing terminal

An intelligent, powerful weighing technology featuring a stainless-steel enclosure and high-brightness capacitive touchscreen — the ultimate solution for a highly integrated, evolving industrial environment. Built around a dedicated Linux application processor and up to four high-precision, low-noise load cell interfaces, fully programmable to the application.



KEY FEATURES

- ✓ 10.1" high-brightness capacitive touchscreen
- ✓ 580MHz MIPS processor, custom-built Linux OS
- ✓ Wi-Fi access point, Ethernet, USB and external serial port
- ✓ Remote support, software updates and data backup
- ✓ Stainless-steel enclosure
- ✓ Up to four high precision, low noise load cell interfaces
- ✓ Sub-GHz license-free ISM band radio transceiver
- ✓ Fully programmable, custom application software

CORE SPECIFICATION

Display	10.1" high-brightness capacitive touchscreen
Enclosure	Stainless steel
Application processor	580MHz, MIPS architecture, custom-built Linux OS
Load cell interfaces	Up to 4, high precision, low noise
Wired connectivity	Ethernet, USB, external serial port (RS485/232)
Wireless connectivity	Built-in Wi-Fi access point, sub-GHz ISM band radio transceiver
Remote access	Internal web interface via Wi-Fi, Ethernet or internet
Software	Custom application, tailored to customer requirements
Design & manufacture	Staffordshire & Shropshire, United Kingdom

A SECURE, CUSTOM LINUX PLATFORM

The application processor is based on MIPS architecture, running a custom version of Linux built from the ground up for security, stability and performance. The same base operating system is deployed worldwide in devices such as network routers and firewalls, giving NEXUS an extremely secure, stable and flexible application environment. NEXUS runs software written specifically for the task at hand, tailored to suit each customer's requirements — all software and hardware design is carried out in the UK.

PROCESSOR

580MHz · MIPS · Linux

LOAD CELL INTERFACES

Up to 4, high precision

WIRED I/O

Ethernet, USB, serial port

WIRELESS I/O

Wi-Fi access point, sub-GHz radio

REMOTE ACCESS

An operator can interact with NEXUS via the built-in Wi-Fi access point or the touchscreen. For a fully installed system, the Ethernet interface connects to a customer network and, from there, the internet — once connected, NEXUS can reach our back-end server infrastructure:

- ✓ Send emails for reports, alarms and run data
- ✓ Remote access to the web interface for the customer
- ✓ Ongoing remote support and software updates
- ✓ A channel for data backup and off-device analysis
- ✓ Mobile network data connectivity for field-deployed systems

EXTERNAL DEVICES & INTEGRATION

NEXUS communicates with external equipment using serial ports (RS485/232) and network protocols, and can drive devices such as beacons and klaxons or control other switchgear via relays. The weighing termination is configurable to your unique application, and NEXUS can be embedded in bespoke, custom PC-built software integrated into your process systems.

APPLICATIONS

Custom industrial systems

Fully programmable control for bespoke, complex weighing applications.

Networked process control

Wi-Fi and Ethernet connectivity for integration into a customer network.

Remote-monitored installations

Back-end connectivity for reports, alarms, support and software updates.

ORDERING INFORMATION

NEXUS

Pricing on request. Contact us to discuss your application.

decicalelectronics@gmail.com

07786 421085

7 Chartwood, Loggerheads, Market Drayton, Shropshire TF9 4RJ