R传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com nantracour LCA15, LCA15F & LCB

Load Cell Amplifier with Data Outputs RS232 & RS485



Flexible digital signal conditioning amplifier for multiple or single load cell applications, offering very easy one-pass calibration and fast set-up

This versatile load cell weight indicator offers options of local or remote LCD displays, isolated 4-20 mA 0-10 V analogue outputs, relay outputs for control or alarm functions and in-flight compensation commonly used in silo bag filling applications and crane overload alarms. The RS232 or RS485 options provide for digital communications (including setup) and can support label or ticket printers.

A Fast LCA15F is also available with a 10 mS strain gauge input.

Specification at a Glance

- Auto tare and peak hold actioned by volt-free contacts
- RS485 and RS232 digital data output for communications and printing
- Fully isolated 4-20 mA and 0-10 V analogue outputs
- Excitation 10 V 160 mA for up to 6 load cells
- 6 wire input to compensate for barrier and cable losses
- 2 set points SPCO relay outputs
- Sensitivity from 0.5 to 200 mV/V
- Environmentally sealed to IP65 / NEMA 4 enclosure dimensions 200 x 120 x 75 mm



User Benefits

- Analogue and data
- mounting or PCB module or a stainless steel case

Ideal Applications



LCA15 Product Sheet

www.mantracourt.co.uk

sales@mantracourt.co.uk

tel +44 (0)1395 232020

ΠE

Related Product





ADP15

Universal digital panel meter for

measuring 4-20 mA, 0-10 V



SMW

Weighing indicator and

weight controller

LCB Digital load cell amplifier with data & relay outputs

Related Software

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Instrument Explorer Quick set up software event monitoring, data logging, calibration and configuration

Case Study

The Application:

During processing, bacteria will grow on tobacco and decay the leaves if the product is left untreated.

A chemical called KABAT prevents such bacterial degeneration and is a widely used solution to this problem. For this to be effective, it is essential that the correct quantity of KABAT is administered.

The Solution:

The chemical spray rate is based on the tobacco flow rate, and a variable dose rate set in parts per million (ppm). The system developed comprises of five Mantracourt integrated ADP15 indicator display's and an LCA15 weighing amplifier/digitiser module unit, a chute mounted load cell, and Instrument Explorer software.

Tobacco flows over a chute which has a load cell mounted on a pivot. The load cell weighs the tobacco as it flows down the chute and transmits this to the LCA15. The LCA15 reads the tobacco flow rate from the load cell in kilograms per hour and transmits this as a 4-20 mA signal to the ADP15 instruments.



The PC link along with Mantracourt's free software enables the user to monitor all parameters in the system, providing clear display and information on dosing errors in the control room.

CE & Environmental

Storage temperature Operating temperature Relative humidity	- 20 to +70°C - 10 to +50°C 95% maximum	non condensing	European EMO	CE Environmental Approvals European EMC Directive Low Voltage Directive		2004/108/EC 2006/95/EC		
For more informatic www.mantracourt.co.uk technical@mantracourt.co Mantracourt Electronics The Drive, Farringdon, Ex Devon, EX5 2JB, UK T: +44 (0) 1395 232020 F: +44 (0) 1395 233190	o.uk Ltd	today	CE	Designed, manufactured and supported in the UK	HE QUELYS AWARDS TO EXTERNAL	ISO 9001 REGISTERED FIRM		
In the interests of continu	ed product develop	ment, Mantracourt E	lectronics Limited reserv	ves the right to a	lter product spe	cifications withou	it prior notice	
LCA15 Product Sheet	Issue 3.0	07.12.12	www.mantracourt.co.uk	sales@man	tracourt.co.uk	tel +44 (0)1395	232020	