

Weighloader

On-board weighing system



AFFORDABLE SYSTEMS DESIGNED WITH THE USER IN MIND

Building on the success of Weightmaster and the original Weighloader, the Prolec engineering team has excelled itself and developed a new, improved range of on-board weighing systems for wheeled loaders. They have enhanced system performance and incorporated many additional user-friendly features which operators have come to expect in a Prolec product.

IN-CAB CONTROL AND CONVENIENCE

The system has its own on/off key that allows the driver to turn it off completely when he is working on a stockpile or another non-weighing operation. Alternatively, he can put the system into stand-by mode, in which it shows time and date only. Drivers are guided through the weighing process by bold numbers and icons, clearly displayed on a back-lit LCD screen with adjustable brightness and contrast. The outstanding visibility and adjustment of the LCD makes it suitable for the widest possible range of light conditions. No more will early mornings in Spring and Autumn give drivers difficulties with display visibility in low angle sunlight. The rubberised, water-resistant keypad is also back-lit and configured in a familiar mobile phone and calculator format. Located directly below the LCD display are soft keys, whose usage alters according to the stage reached in the weighing programme. Again, these keys are back-lit, an essential requirement during intensive periods of extraction or waste disposal when early and late shifts are scheduled.

The in-cab display unit can store up to 99 long and short totals in its memory. In count-up mode there is a range of totalling options, including the facility to show the current truck



Weighloader: another user friendly product from Prolec

load in addition to keeping a record of the overall total. The display size has been reduced in order to maximise the clear vision available to drivers in cabs that are becoming more compact. Prolec has also designed a range of display mounting plates and brackets to suit the variety of ROPS cab structures found in wheeled loaders on the market today.

The new Weighloader systems provide a choice of count-up or count-down modes, kick-out or fly-by weighing and multiple product totals. Every one of these features

can be activated by an operator, without the need for any system adjustment. For loaders that undertake a variety of activities, up to 5 alternative bucket calibrations can be held in the memory. A switch on the display allows for ride control compensation. A printer upgrade is available if a permanent record of loader activity is required. Experienced operators can take advantage of a special calibration trimming feature that will enable them to compensate for tare weight changes caused by bucket teeth wear.

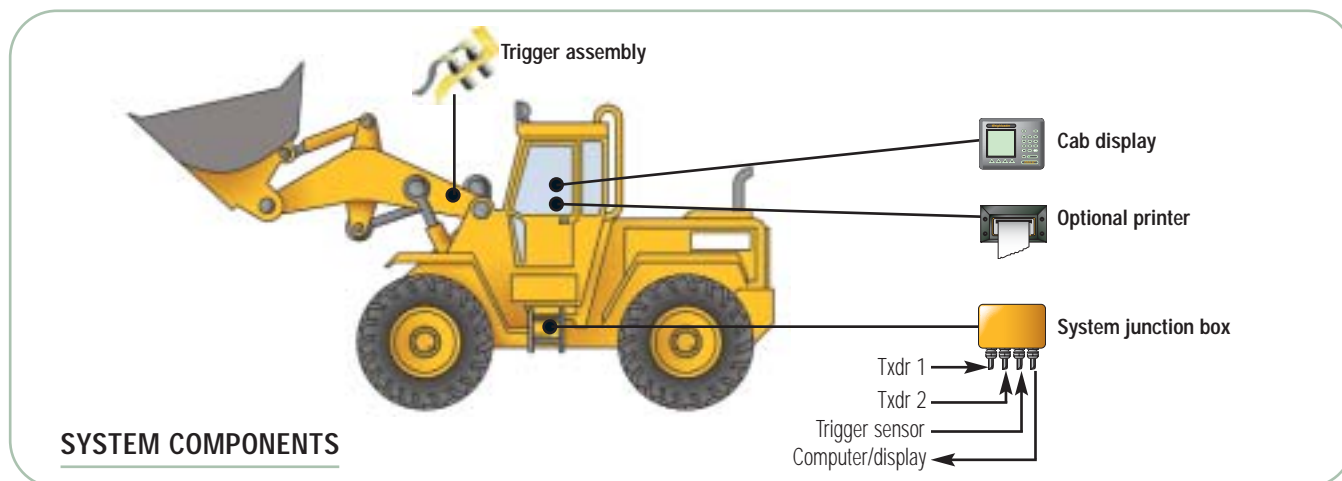


PROLEC SYSTEM RELIABILITY

Weighloader uses two transducers to monitor the full side and rod side lift ram pressures. Proximity sensors on the lift arm determine when the weighing position is reached and these can also be used to monitor speed and acceleration. By activating a switch on the in-cab display, operators can also compensate for ride control mechanisms.

PRODUCT SUPPORT

The Weighloader system, along with all other products in the Prolec range, is supported by a service network of more than 15 mobile engineers across the UK and through selected international distributors. The company also offers a factory-based product support service that provides training to engineers and customers in the operation and maintenance of all products in the Prolec range.



TECHNICAL SPECIFICATION

DISPLAY

DISPLAY TYPE 128 x 128 LCD graphic display with LED backlight
Contrast and brightness adjustable

KEYPAD Backlit rubber keypad

INPUTS/OUTPUTS RS485 serial data connection (computer connection)
RS232 serial data connection (printer/data download options)
Power supply input
Opto isolated ride control detect inputs
Kickout relay control

POWER SUPPLY Operating voltage 10V to 30V dc
Current consumption 100mA min. (30V operation) to 300mA max. (10V operation)
Protected against reverse connection and voltage transients.
Solid state re-settable fusing and integral regulation.

TEMPERATURE Operating 0°C to + 50°C
Storage -10°C to + 60°C

ENVIRONMENTAL PROTECTION IP65

EMC Meets Directive 89/336/EEC

COMPUTER

INPUTS/OUTPUTS 2 x 500 bar pressure transducers. 1/4 BSP hydraulic adaptor.
Transducers protected against x 2 (1000 bar) overpressure.
2 x opto isolated proximity switch inputs
RS485 serial data connection (display connection)
Power supply input
Kickout relay control

POWER SUPPLY Operating voltage 10V to 30V dc
Current consumption 50mA min. (30V operation) to 150mA max. (10V operation)
Protected against reverse connection and voltage transients.
Solid state re-settable fusing and integral regulation.

TEMPERATURE Operating -20°C to + 60°C
Storage -40°C to + 80°C

ENVIRONMENTAL PROTECTION IP67

EMC Meets Directive 89/336/EEC

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