



## Product Description

The W&M approved FlintWeigh Scale Interface is a key component to integrate a Weighing System into your PC system.

Scales with RC3D Digital Load Cells and FlintWeigh PC Weighing System do not require any separate weight display.

The load cells are connected via the intelligent RS485/USB- Converter directly into the PC system.

The Flintweigh-Software for the PC system is an OCX-Module with an Active-X-Control Interface. The approved Weight Display on the PC Monitor shows the actual weight and the approved Alibi Memory is stored on the hard disk.

A remote display and traffic light/barriers can be connected to the system.

Two scales can be connected with functions:  
Scale 1 / Scale 2 / Scale 1+2.

Set-up, calibration and after sales service are very easy with all required information on the PC monitor.

The Flintec supply incorporates: the FlintWeigh Scale Interface (Converter RS485/USB), approved FlintWeigh PC software and FlintWeigh Basic Weighbridge application software.

## Key Features

- EU Type approved for 10 000 intervals
- Single range or multi range or multi interval
- RC3D connection
- Approved weight display on PC monitor
- Approved alibi memory on PC hard disk
- Two scales can be connected
- Digital I/O for traffic lights and barrier
- Interface for remote display

## Option

- Analogue load cell connection: instead of digital load cells type RC3D you connect one of the digital amplifiers type LDU 68.1 or LDU 69.1 or LDU 78.1 within the digital junction box type KAL-4

## Specifications

### GENERAL

|                     |   |
|---------------------|---|
| Scale interface box | Interface with non-volatile memory for system parameters and calibration data |
|---------------------|---|

### ACCURACY

|                  |  |
|------------------|--|
| Accuracy Class   | III  |
| EU Type approved | EU type approval 10 000 intervals (single range) or n x 3 000 intervals (multi range / multi interval) |

### DISPLAY AND KEYBOARD

|                     |   |
|---------------------|---|
| Display             | Approved PC-Weight Display on PC monitor (Active-X-Control)     |
| Resolution          | Selectable up to 99 000 counts (in accordance with regulations) |
| Status annunciators | Net mode, No Motion, Max. and Min., e, Scale no.                |
| Keyboard            | The standard PC keyboard is used                                |

### INTERFACE TO DIGITAL LOAD CELLS / DIGITAL JUNCTION BOX

|   |  |
|---|--|
| Communication & protocol                      | RS-485 half duplex (baud rate 9 600...38 400 / E7,1 or 8N,1), compatible with type RC3D load cell OR type LDU 68.1/69.1/78.1 Load Cell Digitizing Unit |
| Excitation / Power supply for LDU             | 12 V DC, max. 450 mA   |
| Number of load cells / digital junction boxes | Max. 16 digital load cells (max. 10, if directly powered) OR max. 2 digital junction boxes with LDU  |
| Connection to load cells / LDU                | 4-wire technique, 2 wires for digital interface and 2 wires for electrical power   |

### SCALE CALIBRATION AND FUNCTIONS

|                    |   |
|--------------------|---|
| Calibration        | Calibration performed by FlintWeigh software                          |
| Weighing functions | Zero, tare, gross, motion detection, zero tracking (Active-X-Control) |

### COMMUNICATION

|                 |         |
|-----------------|---------|
| Interface to PC | USB 2.0 |
|-----------------|---------|

### DIGITAL I/O

|                |  |
|----------------|--|
| Input / Output | 1x opto-isolated input (24 V), 2x opto-isolated output (open collector, 24 V DC, max. 50 mA) |
|----------------|--|

### POWER SUPPLY

|                    |   |
|--------------------|---|
| Power requirements | 12 V DC, 1.5 A – Power consumption depends on number of connected load cells / digital junction boxes |
|--------------------|---|

### ENVIRONMENT AND ENCLOSURE

|                                  |  |
|----------------------------------|--|
| Operating temperature & Humidity | -10 to +40 °C, 40 to 90% RH (non condensing)   |
| Storage temperature              | -10 to +70 °C  |
| EMC                              | According to OIML R76 and EN 45501 requirements  |
| Enclosure                        | Aluminium housing (protection IP40), installed in the direct vicinity of the PC system |

### PC SYSTEM REQUIREMENTS

|              |   |
|--------------|---|
| Requirements | Windows XP – graphic resolution 1 024 x 768 pixels or higher – USB Port |
|--------------|---|

## Block Diagram

