



## Product Description

The W&M approved Type FW-01 Scale Interface is the key component to integrate a Weighing System into your PC system.

Scales with type RC3D Digital Load Cells, type FW-01 Scale Interface and the nWeigh PC software do not require any separate weight display.

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

The nWeigh PC software 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 Type FW-01 Scale Interface (including Converter RS485/USB), the approved nWeigh PC software and a 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 nWeigh PC 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 |
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### 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

