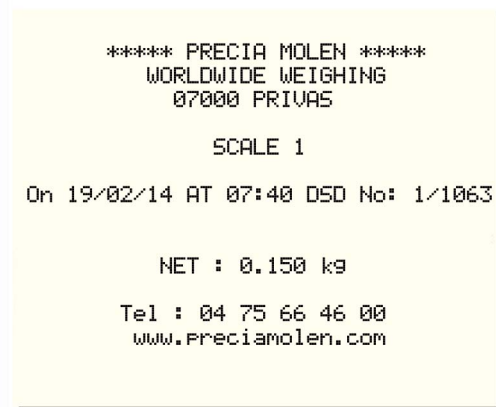


## Example of printout

Weight ticket:



### List of printable data:

- 3 header lines or company name (configurable in the Port Series file)
- Date/time
- DSD number
- Weight
- 2 lines of text at bottom of ticket

Configuration by selecting the type of weight information:

- gross weight
- net weight
- Gross/Tare/Net Weight on one line
- Gross/Tare/Net Weight on 3 lines

### Your Authorised Distributor

Non contractual illustrations. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure at any time.

**Head Office & Plant PRECIA-MOLEN**  
BP 106 - 07000 Privas - France  
Tel. 33 (0) 475 664 600  
Fax 33 (0) 475 664 330  
E-MAIL [webmaster@preciamolen.com](mailto:webmaster@preciamolen.com)

RCS: 386 620 165 RCS Aubenas

**PRECIA  
MOLEN™**  
WORLDWIDE WEIGHING

# I 410 PWS Process Weighing Software

**PRECIA  
MOLEN™**  
WORLDWIDE WEIGHING

## General

The I 410 PWS software enables the I 410 weight indicator to be integrated into an industrial process controlled by a PLC or a PC.

The main features are:

- ▼ simultaneous display of 10 weighing channels.
- ▼ communication with a PLC or PC in process or regulated mode.
- ▼ the monitoring of 4 weight thresholds and an analogue 4-20 mA output for each channel.
- ▼ support of remote display and printing devices.

## Configuration

The operating parameters within the I410 system are independently configurable for each channel and are structured in files based on four levels of access via password:

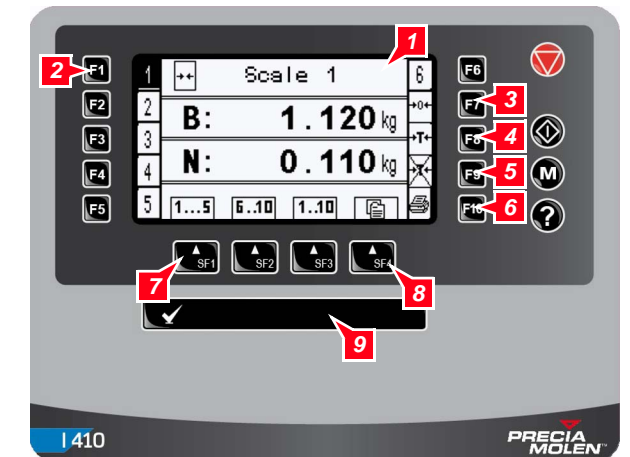
- Engineer:  
Metrological adjustment and Input/Output configuration.
- Supervisor:  
Configuration, Serial port
- Operator:  
Configuration of thresholds.
- User:  
Limited rights for viewing and printing.

This modular approach and segmentation of parameters enables the I 410 system to be easily integrated into the majority of industrial processes. It also provides security of operation by denying access to unauthorised operators.

## Minimum configuration

- ▼ I 410 operator terminal,
- ▼ A weight transmitter or a measuring module fitted in the operator terminal

## Operator interface



1. Main screen of the application (weight display for the selected channel).
2. F1 to F6: Selection of scales from 1 to 6.
3. F7: Set scale to "0 kg".
4. F8: Set Tare
5. F9: Cancel tare (gross return).
6. F10: Print.
7. SF1 to SF3: Display scales (1 to 5), (6 to 10) or (1 to 10)
8. SF4: File access (configuration).
9. Validation (Enter) key.

The function of keys F1 to F10 and SF1 to SF4 are illustrated by the pictogram associated with the key. The function of each key may vary depending upon the current position within the application.

## Features

### Communication by fieldbus

Support for fieldbus:

- ▼ Profibus\*
- ▼ Profinet\*\*
- ▼ Ethernet TCP/Modbus\*
- ▼ DeviceNet\*\*
- ▼ Ethernet/IP\*\*

### Serial link communication

RS232 or RS485 serial of protocols:

- ▼ Modbus RTU
- ▼ PRECIA A + (multi-channel slave and single-channel master)

### Weight thresholds

4 weight thresholds assignable to 4 digital outputs may be defined for each of the 10 weighing channels.

The thresholds can be defined as gross or net weight.

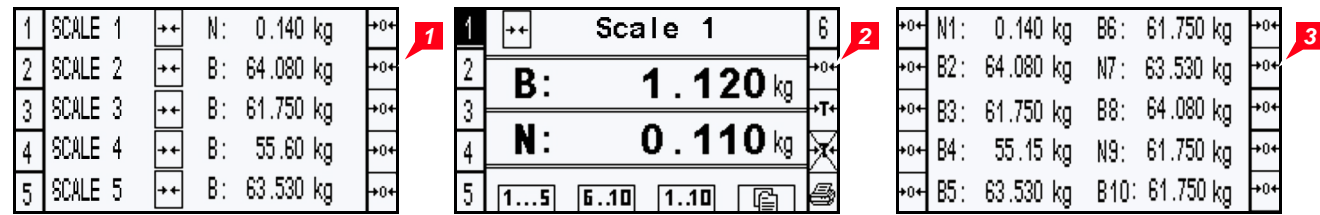
The digital outputs can be assigned to any physical outputs available: transmitter, WAGO terminal or remote interface.

\* integrated map of the terminal or external coupler.  
\*\* only on external coupler.

## Features (continued)

### Display

Configurable text up to 10 alphanumeric characters for each of the weighing channels.



1. Display of all 10 weighing channels on 2 screens (5 channels each) [SF1 <--> SF2].
2. Display of the selected channel.
3. Reduced display of 10 channels on a single screen.

### Remote control

For each of the 10 weighing channels a digital input can be configured to enable a remote command such as zero setting or print request.

Digital outputs can be assigned to any physical inputs available: transmitter, WAGO terminal or remote interface.

### Weight information on 4-20 mA analogue output

The weight value can be either Gross Weight or Net Weight.

Information can be delivered for Gross weight or current Net weight.

Analogue outputs can be assigned to any physical analogue outputs available: transmitter, WAGO terminal or remote interface.

### BCD Weight Output

The weight value from one of the 10 weighing channels is also available via a BCD interface

Requires the use of a set of remote WAGO inputs/outputs.

#### Outputs:

- 5 digits 1/2 weight
- No motion
- Gross/Net
- Out of range
- Watchdog (strobe)

#### Inputs:

- Get weight
- Zero request
- Calibration request
- Gross weight reset

### Control of input/output by the PLC

All physical I/Os (digital or analogue) can be used by the PLC as remote I/Os.

This control can be done via a field bus or serial Modbus protocol link.

### Data Storage Device (DSD)

#### ▼ Data Storage Device (DSD) :

- Max. number of records ..... 38 000.
- Record contains: DSD no., gross weight, tare weight, net weight, predetermined tare, type of weight printed, type of weight transmitted by protocol, units, serial no.
- For trade use application via a PLC or PC to obtain a weight value associated with an approved weight serial number (DSD)

### Identification of scales

#### ▼ Characteristics

File	Capacity	Code	Label	Access level
Scales	10	2c. num.	10c. alpha.	Operator

Possibility for the operator to modify the thresholds values to check for each scale.

### Weight ticket (see sample printout)

Connection to a printer type P255, P360, P140 or LQ300 via an RS232 serial link.

Printing triggered by pressing a terminal key, by remote control on digital input, by the fieldbus or by Modbus serial link or A+.

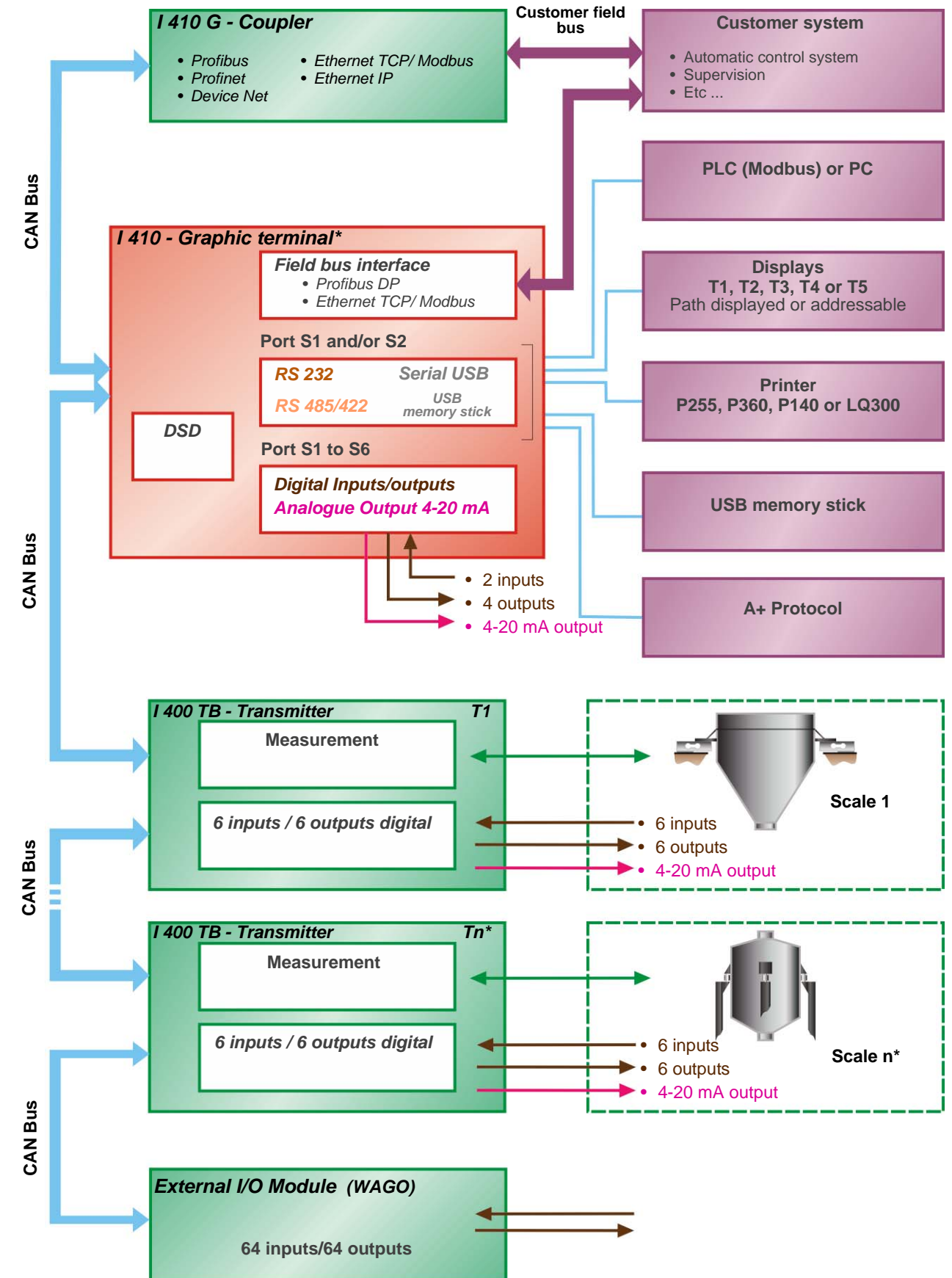
### Remote weight display

Connections available to 1 to 5 D200 or D570 weight displays via an RS232 or RS485 serial link.

### USB memory stick

Complete backup/restore of all parameters via the USB drive

## Block diagram



\*) Management of 1 to 10 Transmitters. It is possible to include one or two internal weighing channels in the graphic terminal.