# Terminal - Weighbridge weighing



		<ul> <li>Thermal printer with ticket eject.</li> </ul>	
Mains supply		<ul> <li>Printing speed: 150 mm/s.</li> </ul>	
• Voltage	230 V -15% / +10%	USB interface.	
Frequency	50 Hz ± 1 Hz	Paper:	
Consumption terminal	250 W	-1 copy	
Temperature range		- Maximum roll diameter	200 mm
• In operation	- 10 °C / + 40 °C	- Paper width	76 mm
In storage	- 20 °C / + 60 °C	- Paper total length	500 m
		(around 2500 tickets)	

# Analogue intercom option

- Maximum distance between 2 stations ...... 200 m 3 W Power

### Inputs/Outputs option (up to 2)

- (12 to 24 V).
- 4 relay outputs Rating .. 250 V - 6 A

### Printer option (continuous printing)

- Printing speed: 80 mm/s.
- · Standard interface RS 232.
- Paper:
- 1 copy
- (around 1500 tickets)
- (end and near end alarms)
- 10 km Mechanism lifetime...

### **Functional characteristics**

**Environmental characteristics** 

- · Connection by phone cable, 1 pair.

- 2 inputs to activate by dry contact or PNP-type transistor

- · Thermal printer with guillotine ticket cutting.

- Maximum roll diameter	156 mm
- Paper width	76 or 110 mm
(depending on printer type)	

- Paper total length 300 m
- Detection of paper end by optical system
- Guillotine lifetime. 300 000 cuts

# Printer option (pre-printing and fast eject)

- Detection of paper end by optical system (end and near end alarms).
- Mechanism lifetime: 100 km.
- Guillotine: 1 000 000 cuts.

### Badge scanner option

- RFID Industrial Technology 125 kHz (Badge in ISO card format).
- RFID MIFARE (read/write), surface mount.
- Bar code reader.

- · Piezoelectric effect alphanumeric keyboard, AZERTY or
- Backlit 240 x 128 pixels graphic display with self-adjusting contrast according to light and anti-glare (adjustment contrast/luminosity directly at keyboard).

### **Ethernet Port**

- Female 100 base T RJ45 plug.
- 10/100 Mbps
- Fixed or dynamic IP address (DHCP).

# Simulation kit for development.

# Metrological characteristics

- Max. number of analogue load cells per channel
- Max. number of digital load cells per channel 12 CDL
- 2-channel summation board.
- Data Storage Device on 48 000 records (DSD no, Gross weight, Tare, Net weight,...)

# **Extra Options & Accessories**



# Remote display (D570)

Delivered with fastening kit on

# Other options

- Radioactivity
- WI-FI link.
- VDSL modems (distance > 100 m) Ethernet network extenders:



For customisation: (integration of a device, type of link, etc.), please contact us.

# Your specialist

Illustrations not contractual. Precia-Molen reserves the right to alter the characteristics of the equipment described in this brochure

# PRECIA-MOLEN Headquarters & Factory

BP 106 - 07000 Privas - France Tel. 33 (0) 475 664 600 Fax 33 (0) 475 664 330 webmaster@preciamolen.com

RCS: 386 620 165 RCS Aubenas



### **Application European conformity**

The BI 410 terminal has been jointly designed as a weighing instrument, a peripheral for drivers' use and a traffic management tool.

Entirely monitored by a remote PC via its Ethernet link, it ensures the traceability of weighing operations regardless of time limits and of the presence of an operator.

Created as a product in its own right, it takes into account all the requirements applicable to a tool designed for continuous operation in severe use conditions:

- · Simple and safe to use,
- · Resistant to environmental disturbances,
- Offering easy access to various equipments (maintenance and replacement of consumables).

The BI 410 terminal is available with standard applications designed by PRECIA MOLEN:

- ▼ Stand-alone version (embedded PC board),
- ▼ Slave version that can be monitored via TCP/IP socket, open protocol with simulation kit to develop.

# Communication

The BI 410 terminal offers, according to its application, various data exchange modes:

- USB port to exchange tables and transfer results via USB stick (stand-alone terminal)
- Ethernet TCP IP port.
- The communication protocol is compatible with all PRECIA/MOLEN terminals and access control devices.

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- 2004/108/EC modified directive on *Electromagnetic* Compatibility\*.
- 2006/95/EC directive on Low voltage equipment.
- 2009/23/EC directive on Weighing instruments.

- ▼ BI 410 I: Analogue indicator version.
- **▼** BI 410 I D: Digital indicator version (PMNet link).
- → BI 410 R: Remote display version (connection to an existing indicator or to a BI 410 I/D terminal).

\* The compliance with this directive is directly related to the proper op-

# **General description**

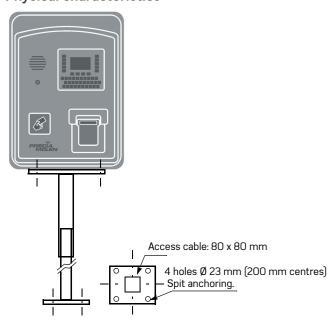
The BI 410 terminal can include the following elements:



- User interface:
  - Alphanumeric keyboard (AZERTY or QWERTY)
  - Backlit graphic screen.
- 2. Badge reader option:
  - RFID 125 kHz read
  - RFID MIFARE read/write
  - Bar code
- 3. Printer option:
  - full ticket issue
  - ticket print and present
- 4. Intercom option:
  - Analogue
  - IP intercom
- 5. Post (2 versions: Light Vehicle or Heavy Vehicle)
- **6.** Ethernet Switch Option (5-port switch) to link several terminals

ANY HARDWARE AND/OR SOFTWARE CONFIGURATION MAY BE CONSIDERED *PLEASE CONTACT US.* 

# Physical characteristics



### 

•	Height	782 mm
•	Width	623 mm
•	Depth	370 mm

# ▼ Material:

· Laminated polyester

# Recommended shrouds:

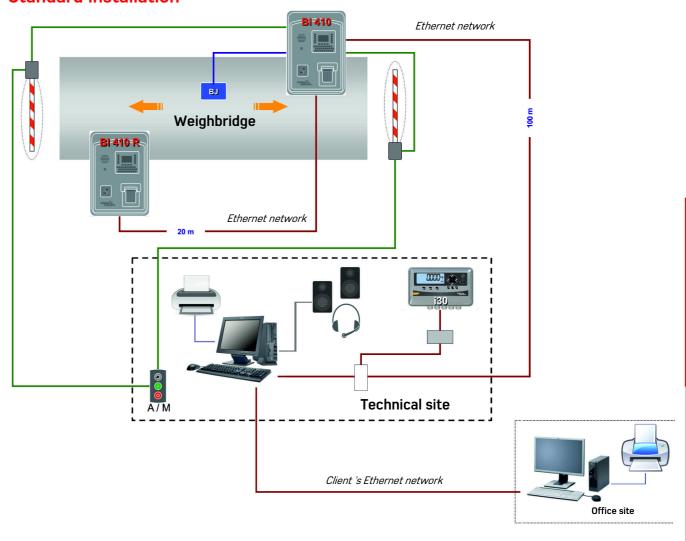
Reconninenced Sillodus.	
Power supply	60 mm
Measurement and command	60 mm
Lights power supply	40 mm
Barrier power supply	60 mm
Other signals	40 mm

		LV post			HV post		
	Min	Standard	Max	М	in Standa	ard Max	
Height Screen/Keyboard (mm)	1650	1650	2480	195	50 2550	) 2930	

# **Options - Stands and protection**

Stand extension	Swivel stand	Wall stand	Impact protection

# Standard installation



# **Extension of Ethernet network**

Above 100 m and up to 1900 m, a pair of network extenders (EIS - EIR) is mandatory.

