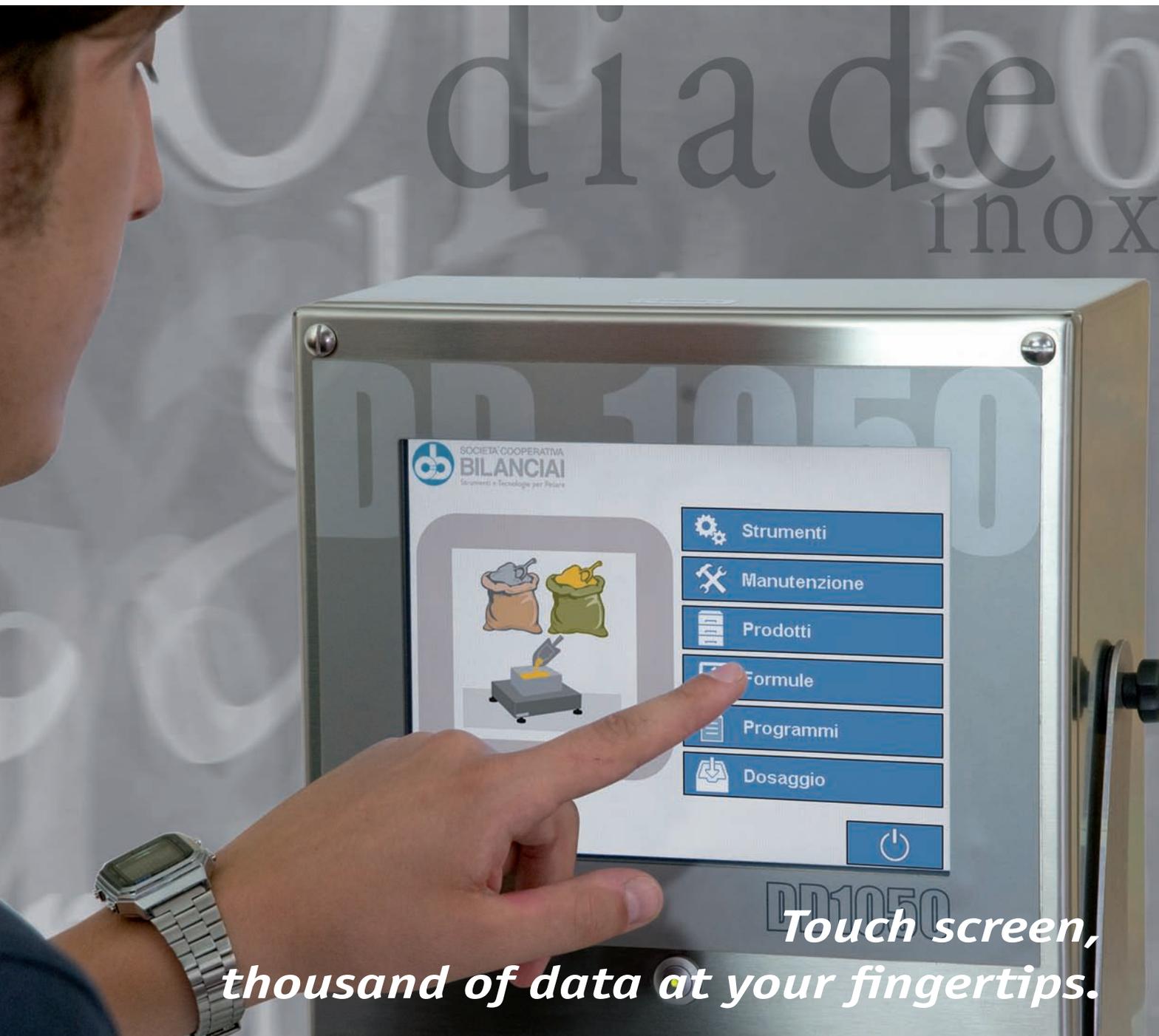


# DD 1050i



## Diade Series Weighing Terminal



*Touch screen,  
thousand of data at your fingertips.*



# Diade Series Weighing Terminal DD 1050i

DIADE (meaning dyad) in mathematics indicates the combination of two elements to achieve excellence. In the same way, the DIADE series terminals combine the power and flexibility of programming a computer with the metrological features of a weighing instrument.



# DIADE

The DIADE series is a revolutionary range of fully programmable weighing terminals; besides being high-performance weighing instruments, these terminals offer innovative and amazing customisation capabilities.

As well as the availability of software dedicated to specific activities, the powerful and modular SCALECORE software and the SCALEWIZARD development tool allow independently programming the DIADE series terminal to completely fulfil the various industrial application requirements.

In fact, one single system gives you the possibility of programming using fully-developed languages for complex application management and versatile and simplified RTL (Real Time Language) software for easier process management.

## Model DD 1050i WEIGHING TERMINAL

The terminal is designed for industrial applications and comes standard with metrological weighing management software.

To complete the terminal, **various software packages are available** specifically for **different weighing applications**. Its innate eclectic quality is strengthened by the availability of the **SCALECORE** software and the **SCALEWIZARD** development tool, which allow fully independently programming the system in WINDOWS CE environment.

### MAIN FEATURES

#### ROBUST AND VERSATILE:

designed for industrial applications; body and front panel in IP68 stainless steel.

Available in desktop and wall-mounted version.

#### USER-FRIENDLY:

thanks to the 10.4" touchscreen colour display and the possibility of customising the screen layout with easy-to-interpret graphic icons.

#### MAXIMUM APPLICATION FLEXIBILITY:

the DIADE series terminals come standard with metrological weighing management software. Optional application software packages allow you to customise the functions and graphics to suit your specific needs. A further confirmation of the flexibility of use is the possibility of connecting up to 4 scales with digital or analogue load cells.

#### TOTAL PROGRAMMABILITY:

with the SCALECORE set of software components you can independently develop industrial weighing applications, creating a modular structure, customising the graphics, and managing the data and communication with connected devices as you want.

#### NETWORKED COMMUNICATIONS:

thanks to the hardware setup and the programming power, the DD1050 terminal can be connected to the customer's network with no difficulty at all; the possibility of installing drivers for different peripheral accessories (e.g. printers) allow managing them directly from the terminal.

#### DATA MANAGEMENT:

the use of an SQL relational database enhanced with remote connectivity services and a flexible database structure offer the possibility of targeted data management and easy data export to corporate databases.

#### MANAGEMENT VIA PERSONAL COMPUTER:

SCALEWIZARD is the PC software that allows managing the terminal and customising the display, printouts and databases.

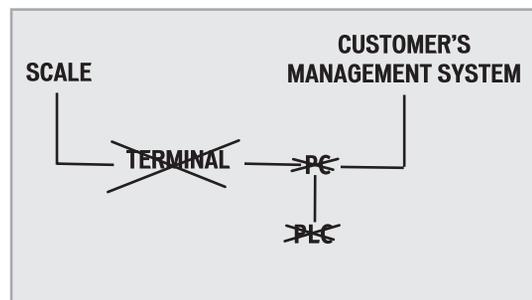
# WEIGHS, MANAGES AND COMMUNICATES

## APPLICATIONS

The robust stainless casing with IP68 degree of protection allows its application in all industrial weighing environments where hygiene must be guaranteed.

The weighing terminals of the DIADE family are the ideal solution for many process controls and allow considerably reducing the components used with the following advantages:

- Less complex connections and hence lower installation costs
- Reduced system component costs
- Simplified maintenance/service activity



Solution with conventional terminals



Solution with DD1050 terminal

## CHOOSE FROM THE VARIOUS SOFTWARE PACKAGES AVAILABLE AND CREATE "YOUR" DIADE

### SCALECORE

This is a set of software components for independent development of industrial weighing applications, which makes it easier to create modular structures and managed data, graphics and communication between distributed modules.

The main components provided are:

- Graphic engine
- Graphic libraries
- Scale management
- Distributed peripheral device management
- Communication protocols
- Print driver
- Simplified RTL (Real Time Language) software with hard real-time capability
- SQL database

Through this tool you can fully customise system operation, for

example:

- Adapt the operator interface
- Modify the database structure
- Modify the operating logic

### SCALEWIZARD

This is a PC software package that allows managing the DIADE series terminals via a personal computer.

Some of its main functions are:

- Display generation/customisation
- Database composition
- Printout customisation
- Instrument configuration
- Application uploading
- Backup

## SOFTWARE (OPTIONAL)

The DIADE series terminals come standard with metrological weighing software.

You can also install various other software packages designed for countless applications.

For example, MANUAL and AUTOMATIC DOSING MANAGEMENT packages that can directly be connected to the various management systems for data export/import.

Software packages for DOSING on several scales are available to manage cycles, formulas, silos, products, statistics, fast and slow extraction plus automatic flight correction for food industry processes and for particularly hard working conditions.

### BOMBOLE

Matr./Cod

Cod.	Matr.	Pres.(bar)	Cap.(l)	Collaudo
3500	07/0693/115	0	13,4	08/03/2019 0
5113	7=401937	0	27,4	08/05/2019 0
661	9=206447	200	40,9	09/05/2009 0
7365	9=206427	200	40,9	08/10/2009 0
BAD	09/1027/034	0	13,4	08/03/2009 0

Tara 15,46 kg    Quantità 10 kg     A peso     Residuo

Prodotto E290    ALIPAK 200    Co2 Aliment E 290

Validità 5

Cliente 3500    GRIFONE SRL

Indirizzo

NET    PT: 15,46 kg    A    B

7,18 kg    0,00 kg

MIN

### ...RIEMPIMENTO...

Bombola 07/0693/115

Tara 15,46 kg

Capacità 10 kg

Lotto 12345

Cliente GRIFONE SRL

Prodotto ALIPAK 200 Co2 ...

Richiesto 10 kg

Stato -2,82 kg

### CARICARE BOMBOLA NON COLLEGATA

Bombola

Tara kg

Capacità kg

Lotto

Cliente

Prodotto

Richiesto kg

Stato kg

A    B

● Prodotto 1    ● Prodotto 2    ● Prodotto 3    ● Prodotto 4

1    2    3    4    5

1800 kg    1345 kg    901 kg    1910 kg    1722 kg

150 kg    100 kg    50 kg    10 kg    50 kg

Colla Q213    Colla A901    Diluente 12    Mastice 200    Nero 123

2000 kg    2000 kg    2000 kg    2000 kg    2000 kg

Prodotto 3    Prodotto 2    Prodotto 3    Prodotto 4    Prodotto 1

200 kg    200 kg    100 kg    60 kg    70 kg

### Dati Silos 1

Portata Max 2000 kg

Ricetta 0 kg

Gomma B243 1500 kg

Prodotto 1 600 kg

Statistica Giornaliera

Statistica Settimanale

Statistica Mensile

EXIT

### INGREDIENTI DI FORMULA

Formula MORTADELLA

Cod.Pr.	Prodotto	Q.(kg)	Toll.(kg)	Non pesare	Bl
1	MAGRO	70	1	<input type="checkbox"/>	B
2	GRASSO	25	0	<input type="checkbox"/>	B
3	COTENNA	5	1	<input type="checkbox"/>	B
4	AROMI	1	0	<input checked="" type="checkbox"/>	
5	SALE	1	0	<input checked="" type="checkbox"/>	
6	PEPE IN GRANI	1	0	<input checked="" type="checkbox"/>	
7	PEPE MACINATO	1	0	<input checked="" type="checkbox"/>	

05/09/2011 09:33

0,0 kg

Programma

Formula [2] MORTADELLA 1 / 1

Lotto 12345

Prodotto [1] MAGRO (1/8)

Quant. 70 kg    Ciclo prod. 1 / 1

Richiesto 69 kg    71 kg

Stato -70 kg    0,0 kg

CambLP    Cicli cont.    CambPr    Stop    Abort

Dosaggio

# CREATE YOUR DIADE WITH EXCLUSIVE GRAPHICS



# Diade Series Weighing Terminal DD 1050i

## TECHNICAL SPECIFICATIONS

- 500 MHz processor
- 128 MB RAM
- 128 MB flash memory
- 10.4" colour display with touch screen
- Ethernet 10/100 output
- Wi-Fi connection option
- 2 I/O 24V ac/dc
- 1 memory card expansion slot: SD card, Compact Flash
- 3 expansion slots (scales, serial ports, I/O, fieldbus, etc.)
- 12 VDC, 110-230 VAC power with external supply
- EC approved up to 6000 divisions - Multidivision and Multirange versions (3x3000 or 2x4000)
- OIML certificate
- NTEP approved



## OPTIONS

### SERIAL OUTPUT CARD

This card allows managing a further two serial outputs in addition to those provided

- RS232, RS422 and RS485 formats
- Programmable baud rate

### INPUT/OUTPUT CARD

Each card makes 4 inputs and 6 outputs available in addition to those provided on the standard terminal

- Input: optical isolation  $V_{max}$  24 VDC
- Output: Optomos  $V_{max}$  24 VAC/VDC,  $I_{max}$  190 mA

### PROFIBUS CONNECTION CARD

Profibus network connection card

- Profibus DP functionality
- Galvanic isolation
- Data rate from 9.6kbit/s to 12Mbit/s

### WI-FI COMMUNICATION DEVICE

802.11 wireless data transmission device

### AUDIO CARD

- 2x10 W mono/stereo audio output
- Microphone input

### DIGITAL INPUT/ANALOGUE OUTPUT CARD

Optional multifunction card particularly useful in process control

- 1 0-10 V / 4-20mA analogue output
- 2 pulse counter inputs  $F_{max}$  2 kHz
- 1 0-10 V / 4-20 mA analogue input

### SCALE INTERFACE CARD

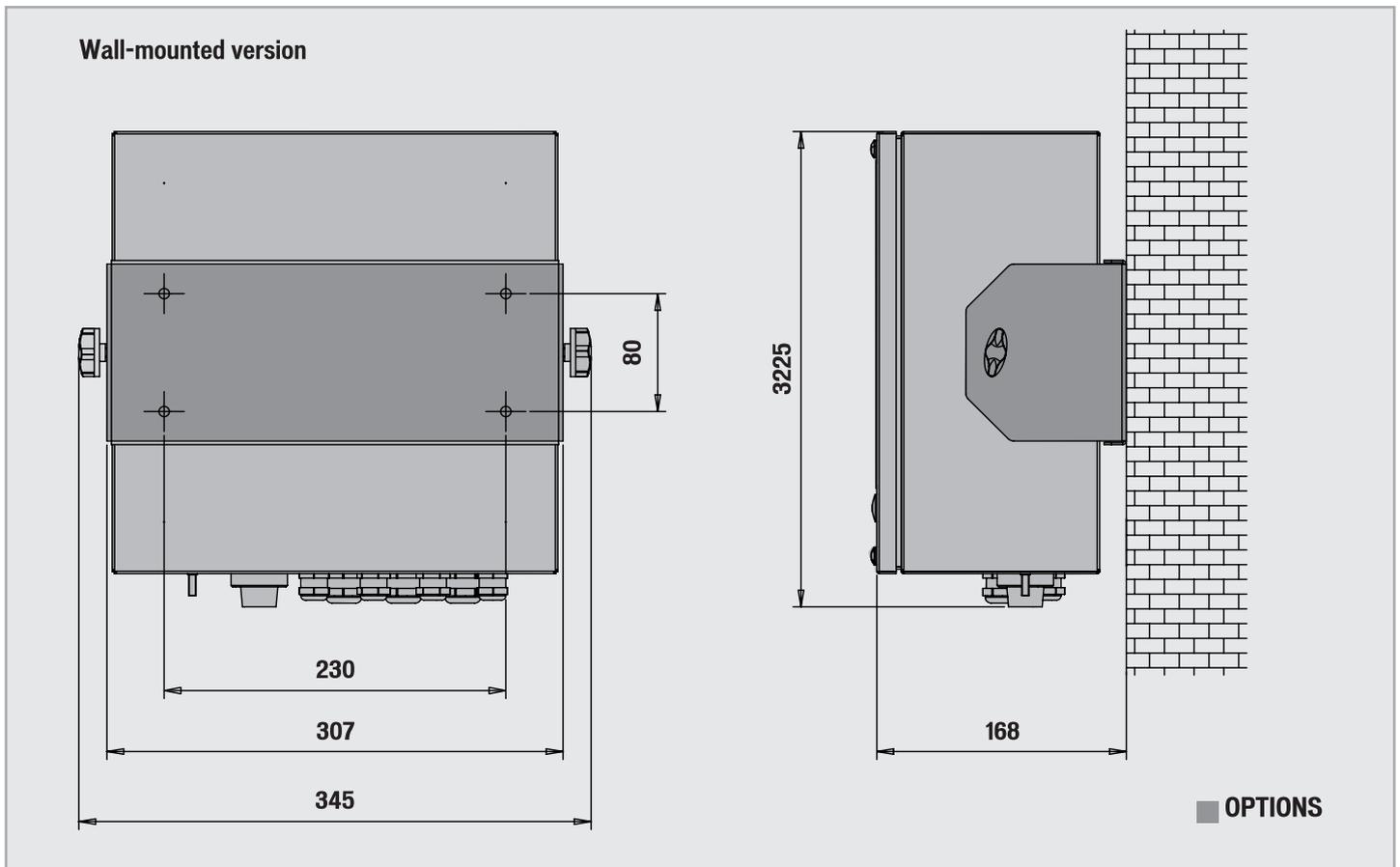
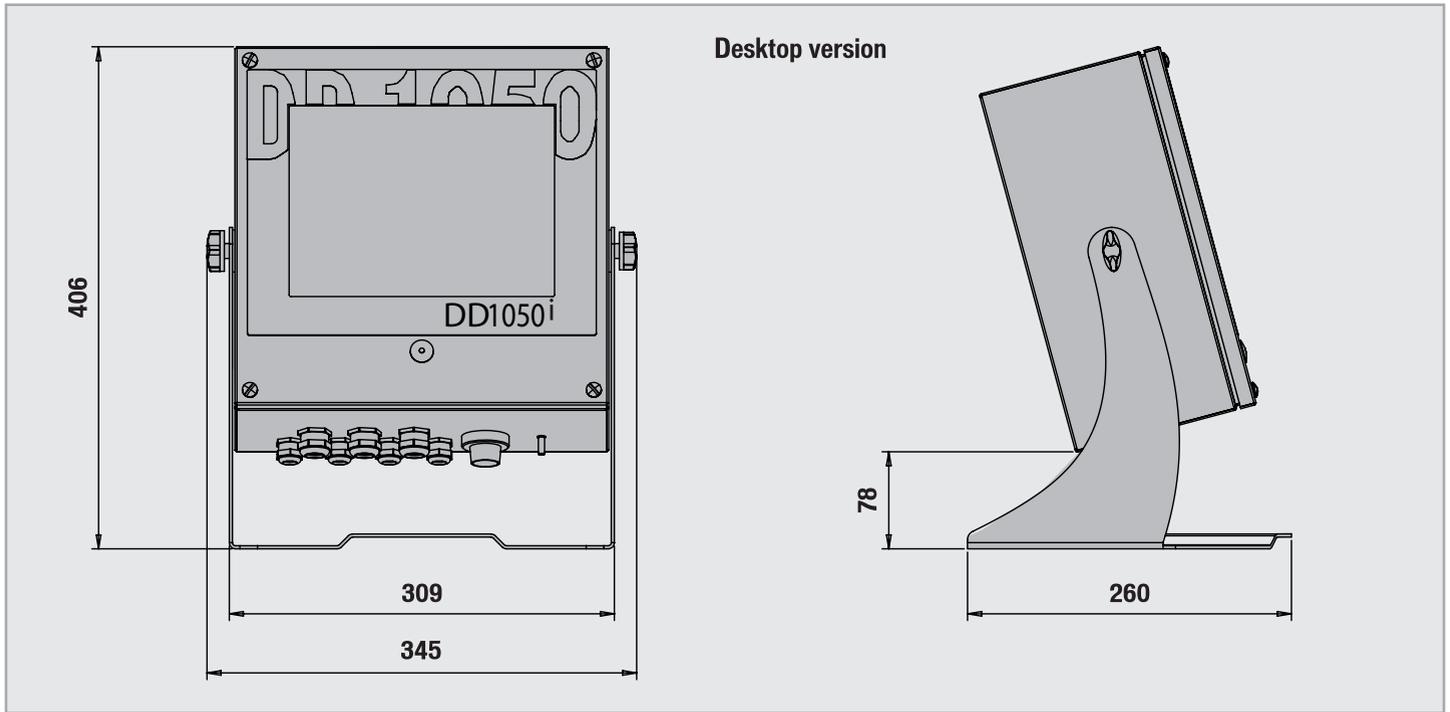
Analogue:

- Internal resolution up to one million points
- Conversion speed up to 100 a second
- 10 VDC load cell power supply
- Customisable digital filters

Digital:

- RS485 interface with dedicated protocol
- Digital load cell diagnostics management (conversion, power supply, temperature, etc.)
- Eccentric load software correction
- 10 to 18 VDC load cell power supply automatically variable in relation to the cable length

# Diade Series Weighing Terminal DD 1050i



With the aim of improving our products from a technological point of view, we reserve the right to at any time without prior notice make changes and modifications to the products shown in the above photographs. - N 81190339 - 1491 - **netstudio**