

PROGRAMMING TERMINAL

PRODUCT NUMBER 3030



Analyser



- > 10 application programs
- > Stainless steel housing 1.4301, protection class IP 67
- > With integrated power adapter 100 to 240V/50 to 60Hz/400mA
- > Dot matrix display 240 x 128 pixels
- > Adjustable backlighting
- > Alphanumeric keypad
- > Weighing ranges from 0.1kg - 120,000kg
- > 3 analogue/digital measuring points connectable internally
- > Calibratable Class III - calibratable resolution up to 10,000 parts
- > Barcode management

Application programs

With its 10 programs, the Soehnle Professional 3030 Programming Terminal is the modern solution for many weighing tasks in retail trade and industry.

Weighing and taring

- › Weighing and taring.
- › Manual tare input.
- › Multiplicative tare.
- › Provisional tare.
- › Automatic tare.
- › Memory space for up to 400 fixed tare values.

Totalising and commisioning

- › Totalising gross, tare and net weights in one total memory.
- › Automatic totalising.
- › Manual inputs and cancel function.
- › Consecutive number and item counter.

Counting

- › Convenient reference weight calculation.
- › Reference weight input.
- › Reference weight optimisation.
- › Piece removal.
- › Piece totalising.
- › Quantity check and quantity metering.
- › Output signals with start function.
- › Reference statistics.
- › Reference weight fixed value memory.

Checking

- › Weighing in to a setpoint weight.
- › Display of deviation and tolerance by means of graphic symbols and as weight value.
- › Weighing in of reference samples.
- › Totalising of identical check items.
- › Output signals with start function.
- › Checking fixed value memory.

Classifying

- › Separating weighing products into max. 5 classes.
- › Defining classes by weight input and specifying percentage (Classes 2 to 5).
- › Totalising weighing product with class allocation.
- › Output signals with start function.
- › Classifying fixed value memory.

Recipes

- › Multiple processing of recipes.
- › Weighing in recipe components in a container.
- › Component check.
- › Output signals with start function.

Neutral weighing

- › Weighing with several physical units, e.g. litres, metres, etc.
- › Convenient input and calculating the specific weight.
- › Free definition of physical unit and decimal places.
- › Totalising of identical units.
- › Check and metering function.
- › Output signals with start function.
- › Neutral weighing fixed value memory

Vehicle weighbridge

- › Calculating the load weight by first and second weighing operations or by weigh once operation.
- › Memory for vehicle empty weight.
- › Vehicle assignment list with 50 inputs.
- › Identification by entering vehicle registration number.
- › Totalising operation the load weight.
- › Calculating a weighing charge.
- › Light control.
- › Vehicle check with output signals.

Dynamic I/O port settings

- › Controlling eight outputs and two inputs.
- › Totalising function.
- › Measured value response to the scale or total memory.
- › Output signals with start function.
- › I/O port settings fixed value memory.

Percentage weighing

- › Weight value is assignable to a percentage.
- › Allocation of 1 to 100%.
- › Totalising function.
- › Check and metering function.
- › Output signals with start function.

Features

The calibratable 3030 Programming Terminal is the well-conceived solution for all applications involving incoming goods, production, warehousing and dispatching operations. It places at your disposal precise, quick measuring technology for modern weighing solutions in the foodstuffs, pharmaceutical, chemicals, electrical engineering and metalworking industries.

Functions

Every weighing task has its special requirements. The 10 different application programs on the 3030 Programming Terminal offer you a wide range of solutions for the following weighing operations.

- › Weighing and taring
- › Totalising and commissioning
- › Counting
- › Checking
- › Classifying
- › Recipes
- › Neutral weighing
- › Vehicle weighing
- › Dynamic I/O port setting
- › Percentage weighing

Please note the reverse side which contains explanations of the program. Special programs are available on request.

Housing

- › Compact housing made of stainless steel 1.4301, protection class IP67. Designed to withstand aggressive environmental conditions.
- › Available as desktop, wall/stand unit.
- › Integrated power adapter, cable routed through airtight cable gland.
- › Pressure compensated by gas-permeable membrane.

I/O options

- › 3 analogue / digital measuring points connectable internally.
 - › Total of up to 30 measuring points.
 - › Calibratable resolution up to $10,000e/3 \times 3,000e$ with appropriate load cells.
 - › RS232 port to connect barcode reader.
 - › PC keyboard.
 - › Secondary display.
- Contact your dealer or one of our staff.

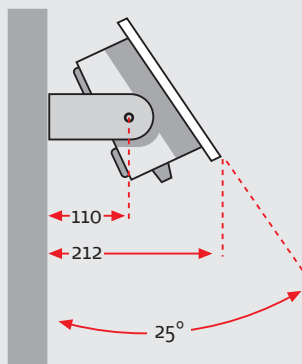
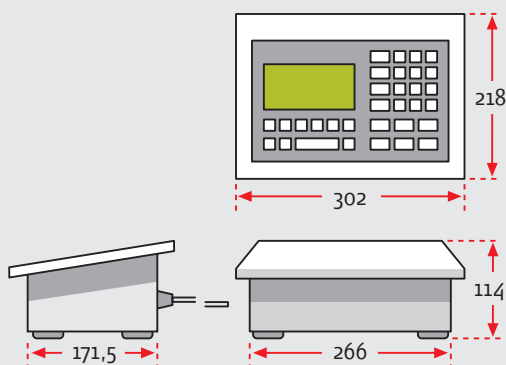
Interfaces

- › RS232 data port fitted as standard.
- › Other interfaces available as options. Port options include RS232, RS422, RS485, 20mA CL.
- › Various fieldbus connections, e.g. Profibus DP, Interbus S, Modbus, Canbus and Ethernet connectivity.
- › Connection for printer, control and warehouse management systems available.

Calibratable alibi memory via data memory.

- › Multi Media Card MMC with 32MB memory capacity for 2 million inputs in the calibratable alibi memory (optional).
- › Fixed value memory for maximum 400 inputs valid for all programs, e.g. tare memory, reference weight memory, etc.
- › Database function for organisation data.

Dimensions (mm)



Operation, keypad and display

Accessory

There is a wide range of accessories for the 3030 Programming Terminal, for example:

- > Tape and label printers.
- > Additional digital/analogue measuring points.
- > Calibratable break point in the measuring cable.
- > I/O module, relay box, control light.
- > Anybus board, e.g. Profibus.
- > DC power source.
- > Barcode scanner.
- > Alibi memory.
- > Software for fixed value input via PC.
- > Wall or stand brackets.
- > External PC keyboard.

Print

In addition to the standard tape printer 2795.11.001 and the label printer 2795.12.001, all EU approved printers are connectable to the serial RS 232 port.

Fifteen program-specific standard print format/Edp format are programmed at the factory. User-defined print templates are available on request.

Mechanical design

- > A scale basically comprises the 3030 Programming Terminal and one or several weighing machines connected by cable to one or several strain gauge load cells.
- > 1 to 3 measuring points are permanently connected to the appliance; they are optionally disconnectable via calibratable break points in the measuring cable.
- > Calibratable break point: an ID chip is fitted for each weighing machine so that the programming terminal can identify the weighing machine.

Display

- > Dot matrix display (240 x 128 pixels), adjustable backlighting.
- > The LC display shows different situation-dependent views; it is divided into display panes such as the additional display, symbol bar, information pane, display pane and function bar.

Keypad

- > Membrane keyboard with large keys and a perceptible pressure point.
- > The easy-to-clean membrane keyboard with smooth surface meets all requirements for ergonomics, hygiene and service life.
- > Total of 32 keys, of which 6 function keys, 4 keys for organisation data, alphanumeric keys to enter manual tare weight, piece weight and additional data. Text input via numeric keys.
- > Application-specific functions accessible via function keys.
- > Keylock to lock individual, non-function-related keys.

Function keys are pre-programmed to various functions depending on the program or situation. The function name appears above the key in the function bar in the display.

Dot-matrix display

Organisation data calls

Numeric keys to enter numeric values. Multiple programming of numeric keys to enter alphabetic characters.

Power on/off

Function change key

Print key

Enter key

Zeroing key

Tare key

Scale change key



Technical data

Housing

- › Stainless steel housing made of chrome-nickel steel 1.4301.
- › Protection class IP67
- › Empty weight 3.6kg
- › For dimensions see dimensional drawing.

Keypad

- › Membrane keyboard with 32 large keys for safe operation.
- › Text input via multiple key programming.

Display

- › Dot matrix display with 240 x 128 pixels
- › Adjustable backlighting

Environmental conditions

- › Temperature range -10°C to +40°C

Inputs/outputs

- › 8 outputs and 2 inputs, freely programmable, optionally 8 outputs and 8 inputs, freely programmable.

Interfaces

- › 1 serial RS232 port (standard)
- › Optional a second RS232 or RS422 port (2-wire or 4-wire), 20mA CL
- › RS485 port
- › External keyboard

Electronic connection

- › Integrated power adapter with extremely wide range of power supply voltages from 100 to 240V/50 to 60Hz/400mA
- › Power plug with 2m cable.
- › Option: DC power supply 12V, 24V or 48V.
- › Load cell power supply, optionally 5VDC or 5VAC at 33 Hz.
- › Min. input signal 0.25 μ V/e.
- › Maximum measuring cable length 80m at 0.14mm².

Weighing electronic

- › Internal connection of 1 to 3 measuring points, a total of up to 30 measuring points.
- › 4-wire or 6-wire technology, calibratable resolution 10,000e.
- › Internal resolution 10,000,000 d.
- › Measuring value rate 67/second.
- › Sensitivity 0.25 μ V/e.
- › Resolution: $n \leq 6,000 e$ (vehicle weighbridge: $n \leq 3,000 e$).

Calibration data Class III

- › Maximum weighing range 0.1kg to 120t.
- › Single range scales: $n < 10,000 e$; multirange and multiinterval scales: $n = 6,000 e$ or $3 \times 3,000 e$.

Memories

- › Calibratable data memory (MMC 32MB) for memory capacity up to min. 2,000,000 weighing operations (optional).
- › Alibi ID via consecutive number.
- › Fixed value memory for a total of 400 fixed value; valid for all programs and failsafe.

Date and time memory

- › Battery-backed real-time clock.

Application in explosion hazard areas

- › The standard version of the 3030 Programming Terminal may not be operated in zones subject to explosion hazards.
- › A special version is available for use in explosion hazard zones 2 and 22.

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SCALES, SYSTEM SOLUTIONS AND SPECIAL DEVELOPMENTS

