

# 3590EGT HYGIENX: new stainless steel touchscreen weight indicator for environments with high hygiene requirements



## Standard Features

- **Touchscreen backlit graphic display**, dimensions l x h = 120 x 90 mm.
- **Multilanguage software.**
- Waterproof alphanumeric keyboard with 15 keys.
- Traffic light with 3 colors.
- Touchscreen keyboard type QWERTY, AZERTY or QWERTZ, selectable.
- **AISI 316 stainless steel** case.
- **IP68/IP69K** certification against water, dust and high pressure hot water jets.
- Dimensions: 280 x 143 x 185 mm.
- Suitable for use on a table, column or wall.
- Calendar clock and permanent data memory.

- Alibi Memory as standard, integrated on the motherboard.
- Internal micro SD slot (optional) for saving logos.
- **Functions available with DiniTools utilities:**
  - Configuration, data entry and print formatting.
  - Storage and archiving of all information on PC.
  - Complete configuration back-up.
  - Customization of displays.
- A/D converter 24 bit, 4 channels, up to 3200 conv./sec. with autoselect and up to 8 signal linearization points.
- 4 independent analogue channels for reading the weight.
- Max. 10.000e or multirange 3 x 3000e @ 0,3  $\mu\text{V}/\text{e}$  in CE-M approved version.
- Max. 1.000.000 displayable divisions for internal factory use with internal resolution up to 3.000.000 points.
- Connectable to printers and labellers with free programming of the printing formats.
- 110-240 Vac power supply through a 1.5 m cable with Shuko socket.
- Management of up to 16 analogue load cells of 350 Ohm (45 cells at 1000 Ohm).
- Max. 10.000e or multirange 3 x 3000e @ 0,3  $\mu\text{V}/\text{e}$  in CE-M approved version.
- Max. 1.000.000 displayable divisions for internal factory use with internal resolution up to 3.000.000 points.
- Connectable to printers and labellers with free programming of the printing formats.
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# Stainless Steel Touchscreen Weight Indicator for Environments with High Hygiene Requirements

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The 3590 HYGIENX weight indicator with touchscreen display and advanced weighing program is distinguished by its rugged AISI 316 stainless steel case and IP68 and IP69K protection ratings, which ensure fast and deep sanitization with high-temperature and high-pressure water jets.

In the chemical industry, as in the pharmaceutical and food industries, it is necessary to ensure thorough cleaning and exclude any risk of chemical, physical or bacterial contamination.

3590EGT HYGIENX offers traceability, data entry, database, wireless weighing storage and transmission functions according to Industry 4.0 requirements.

CE-M approved (OIML R-76/EN 45501).

## [Discover the HYGIENX Range](#)

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### GMP-COMPLIANT PRODUCT



This product is a weighing instrument of high quality and precision, designed and manufactured for use in the food, chemical and pharmaceutical industries. It is manufactured according to **GMP (Good Manufacturing Practices) standards**, in stainless steel, with specific surface treatment and other construction features required in food, chemical and pharmaceutical environments.

# 3590EGT HYGIENX Weight Indicator Specifications

## I/O Section:

- 2 RS232 serial ports, for connection to printer, PC or PLC, radio module and optional interfaces.
- 1 RS232 serial port (**RS485 optional**), for connection to repeater, remote scale, badge reader or digital load cells.
- Standard keyboard emulation input, for connection to barcode/badge readers or external PC keyboard, through cable with mini DIN connector (optional).
- 4 optoisolated outputs (**optional**).
- 2 optoisolated inputs (**optional**).
- Modbus RTU interface as standard.
- Profibus or modbus TCP interface (optional).
- External Profinet, Ethernet/IP, EtherCAT, CANopen or DeviceNet interface (optional, only with AF01 standard weighing program).
- Optional Wireless Personal Area Network (WPAN) connection, for fast wireless programming of the archives, through PC, tablet or smartphone.
- Analog output configurable (4-20 mA, 0-20 mA or 0-10 V), needs IOEXPB expansion board.

## Software:

- **SUPPLIED AS STANDARD:**
- **AF01:** Totalization and formula weighing
- **AF02:** Pieces/quantity counting
- **AF04:** Statistical checking of prepackaged goods
- **AF05:** Price computing and industrial labelling
- **BATCH1:** Single product dosage systems in loading and unloading
- **BATCH:** Multicomponent dosage systems in loading and unloading (IOEXPB board must be included).

## Customizable Screens:

- Thanks to the programmable touchscreen display, you can create custom-made interfaces for any application:
- The "Dini Display Tool" is a PC software which allows you to quickly customize the touchscreen display.

## Main Certifications:

- EU Type Examination Certificate (45501:2015)
- OIML R76
- OIML R51 - MID
- Australian legal for trade certificate of approval (NMI S788)
- IP68 and IP69K protection rating

## Customised Applications:

- Thanks to the integrated development area, it is possible to create completely customized applications:
  - Guided procedures, messaging for the operator
  - Management of serial ports, customization of protocols
  - Complete management of digital I/O
  - Sequential or simultaneous automations
  - Data entry, customized archives

Dini Argeo also offers the service of development of customized programs, by estimate.

## GMP-COMPLIANT PRODUCT

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pharmaceutical industries. It is manufactured according to **GMP (Good Manufacturing Practices) standards**, in stainless steel, with specific surface treatment and other construction features required in food, chemical and pharmaceutical environments.

## Parts

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Part #	Description
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### Available Versions

<b>3590EGT-HGX</b>	5.7" colour touchscreen indicator with AF01 program, specifically for environments with high hygiene requirements. Casing made of AISI 316 stainless steel with IP68/IP69K rating.
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# Options

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## Part # Description

### Optional Power Supply Cords

<b>PWCORDUK</b>	Version with BS1363 power cord (UK plug).
<b>PWCORDCH</b>	Power supply cord with SEV1011 plug (CH plug).
<b>PWCORDUS</b>	Version with US type B power cord (Japan, North and Central America).
<b>PWCORDAUS</b>	Version with AU power cord.

### Available Firmwares

<b>AF02</b>	Software for piece/quantity counting.
<b>AF04GT</b>	Software for statistical checking of prepackaged goods. For 3590 "TOUCH SCREEN" weight indicators.
<b>AF05</b>	Software for price computing and industrial labelling.
<b>BATCH1</b>	Software for single product dosage systems in loading and unloading.
<b>BATCH</b>	Software for multicomponent dosage systems in loading and unloading. NOTE: For 3590, IOEXPB expansion board is required.
<b>CHECK</b>	Software for packages weighting on a conveyor belt functions. R61 approvable.

### Software for Display Customization

<b>DDT</b>	Software for the quick customisation of the touchscreen display. For 3590ET and 3590EGT series indicators.
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### Software to Fill in the Databases

<b>DBM</b>	PC software for quick filling out of the databases. For 3590Exx and CPWExx instruments (the price is intended for the license to manage one scale).
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### Junction Box / Boards - Load Cell Cables

<b>3590E4CH</b>	Built-in board for multiple quick scale connection.
<b>JB4QIP69K</b>	Stainless steel equalisation box for connection with up to 4 load cells. IP68/IP69K protection rating, with 4 + 1 fairleads. NOTE: The S6 service is required for installation on the ET/ETI platforms.

### Approval for Sale to Third Parties

<b>KCEM</b>	Plates and Welmec form for legal trade use of a scale. NET PRICE. Service available in combination with a Dini Argeo indicator.
<b>ECEM-AU</b>	Single platform/scale legal-for-trade approval for Australia.

### Storing Weighments

## Part # Description

**SWM** "WeiMonitor" PC program to monitor and record in real time weighs performed on the connected scale (the price is intended for the license to manage one scale).

## Printers / Labelers

**PR80-3** Thermal printer with paper cutter. Paper roll not included.

**LP542TE** Thermal transfer or direct thermal labelling machine Supplied with standard peel mechanism. Maximum printing size 25400 x 108 mm. Maximum roll Ø 127 mm and width up to 112 mm. Label roll and ribbon not included.

**SMTPLUS-2** Thermal transfer or direct thermal labeller. Peel-off kit in option. Maximum print size 25400 x 108 mm. Maximum roll Ø 203 mm and width up to 118 mm. Label roll and ribbon not included.

**SMTRPK-1** Label peel-off and rewind kit for SMTPLUS-x labeller.

**RSCBLP** RS232 cable l=1,5m for LP542xx, SMTPLUS printers.

**RSCBLP10M** RS232 cable l=10m for LP542xx, SMTPLUS printers.

**RSCBSHTP** 1,5 m cable for connecting PR80-3 printer.

**RSCBSHTP10M** 10m cable for connection to the PR80-3 printer.

**PRNSERV** Custom-made ticket (up to 4 layouts). NET price.

**APRNSERV** Custom-made label (up to 4 layouts). NET price.

## Display Customization

**GTMEM** 10 memories set for display customization with logos and images.

## Communication Interfaces

**RSCBUSBPG** USB PC/RS232 converter cable, l=1,5m, with PG9. USB/RJ11 connector. For the connection to weight indicators with IP65, IP68 and IP69K protection system.

**RSCBUSB485** USB cable converter PC/RS485, l=1,5m. With metallic PG9 cable gland. To be combined with an indicator fitted with optional or standard RS485 output.

**OBRF2G4** External 2.4 GHz radio module, cable l=3m. ABS IP65 protecting box, 3 m cable, power supply from weight indicator. Max. distance, in appropriate environmental and installation conditions: 45 m indoors, 140m outdoors. 39 configurable channels.

**OBRF2G4-USB** External 2.4 GHz radio frequency module, USB cable l=1m. Power supply directly from the USB port. Max. functioning distance, in appropriate environmental and installation conditions: 45 m indoors, 140 outdoors. 39 configurable channels.

**RF2G469K** Built-in 2.4 GHz radiofrequency module with IP69K protection rating. Maximum operating distance up to 60 m INDOOR, and up to 80 m OUTDOOR Max. Up to 38 configurable channels. (RF2G469K must be combined with another radio module).

**ETHD** Built-in Ethernet interface. Speed from 10 to 100 Mbps, TCP, UDP, IP, ARP, ICMP, Ethernet Mac protocols.

<b>Part #</b>	<b>Description</b>
<b>PROFI232-1</b>	External RS232/RS485/PROFIBUS interface for DIN bar. Connectable to the indicators with Profibus protocol with PCB, terminal blocks, plastic box and UL-marked labels (if applicable).
<b>RS485C</b>	Built-in RS485 interface (mounting and cable gland excluded).
<b>RS485OPTO</b>	Built-in optoisolated RS485 interface (mounting and cable gland excluded).
<b>WPAN-CL</b>	Classic WPAN device, complete with AMP cable and integrated antenna.
<b>WIFITD69K</b>	Internal WiFi interface with IP69K protection. For wireless connection (via access point) to the company computer system.

## Fieldbus Interfaces

<b>PROFINET1S</b>	RS485 to ProfiNET interface, for DIN rail mounting. With UL marked PCB, Terminal block, plastic box and labels (if expected).
<b>ETHERNETIP1S</b>	RS485 to Ethernet IP interface, for DIN rail mounting. With UL marked PCB, Terminal block, plastic box and labels (if expected).
<b>ETHERCAT1S</b>	RS485 to EtherCAT interface, for DIN rail mounting. With UL marked PCB, Terminal block, plastic box and labels (if expected).
<b>DEVICENET1S</b>	RS485 to DeviceNET interface, for DIN rail mounting. With UL marked PCB, Terminal block, plastic box and labels (if expected).
<b>CANOPEN1S</b>	RS485 to CANOPEN interface, for DIN rail mounting. With UL marked PCB, Terminal block, plastic box and labels (if expected).
<b>191750</b>	Cable,Fieldbus option WE503
<b>FB1SINST</b>	Installation, configuration and testing of Fieldbus Module 1S (RS485 connection cable for fieldbus series, 191750 included). NET PRICE.

## Connection Cables

<b>RSCBRJ</b>	RS232/C serial cable - DB9/RJ11 - l=1,5m.
<b>RSCBRJ10M</b>	RS232/C serial cable - DB9/RJ11 - l=10m.
<b>ETHCBRJ</b>	Ethernet cable, l=1,5m. Fitted with fairlead, for connection between indicator and PC network.

## Weight Repeaters

<b>DGT100R-1</b>	Weight repeater with 100mm LED display. IP68 stainless steel case, 5-key keypad, air valve for regulating the humidity and the pressure.
<b>DGT60R-1</b>	Weight repeater with 60 mm LED display. IP68 stainless steel case, 5-key keypad, air valve for regulating the humidity and the pressure, and configurable protocol.
<b>GLR100I</b>	RS485 alphanumeric repeater with 110mm multicolor LED display, stainless steel casing and IP68 protection rating.

## Columns, Supports Brackets, Visors

<b>Part #</b>	<b>Description</b>
<b>STFI-1</b>	AISI 304 stainless steel fixing bracket. For weight indicator wall mounting.
<b>STFR-1</b>	AISI 304 stainless steel fixing bracket with adjustable inclination. For weight indicator wall mounting.
<b>CSP38I-1</b>	AISI 304 stainless steel column 450x450mm, h=917mm, Ø 38mm. For the indicators of the DINI ARGEO and SCALE HOUSE range.

## Digital Input / Output

<b>C2IN</b>	Set of 2 optoisolated inputs (mounting and cable gland excluded).
<b>C4OUT</b>	Set of 4 optoisolated outputs (mounting and cable gland excluded).
<b>IOEXPB</b>	Built-in board with 12 OUT and 6 IN (mounting and cable gland excluded). It includes expansion circuit of the power supply range of the indicator (8-40Vdc). NOT COMPATIBLE WITH 3590E4CH AND TPRXT. With UL marked PCB, Terminal block, plastic box and labels (if applicable). Note: Accessory that can only be ordered in combination with a suitable weight indicator.
<b>DAC160-2</b>	Built-in optoisolated analog output, 0-4/20 mA, 0-10VDC (cable gland excluded). For DFW, 3590 and CPW indicators. Output -10/+10VDC upon request, only at time of order. NOTE: For 3590, IOEXPB option board is required, available depending on the model.

## Keyboard Protection Cover

<b>CVRXT</b>	Kit of 10 moulded protective covers in transparent plastic. For indicator 3590ED and 3590EGT.
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## Remote Control

<b>TLRP</b>	Radio frequency remote control and receiver with extension, for installations where other option boards with connection to AMP are required.
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## Other Options

<b>TECSUP</b>	Technical assistance by telephone upon request.
<b>UMAN</b>	Printed user manual (Free download from the website).
<b>TECMAN</b>	Printed technical manual (Free download from the website).
<b>ECEMDOC</b>	Printed EU declaration of conformity, EU certificate of verification, test certificate and metrological book (free download from our website, only for approved CE-M products). NET €.

**Dini Argeo S.r.l. | Via della Fisica, 20 - 41042, Spezzano di Fiorano, Modena (MO), Italy | Tel.:  
+39 0536 843418**

[www.diniargeo.com](http://www.diniargeo.com)