

## Application:

**E2R PGC** is used in enterprises where pre-packaged goods control and internal product quality controls are carried out.

### E2R PGC functions:

- Safe and continuous record of measurements and controls on workstations;
- Caching of weighings and controls on weighing instruments and sending them to a computer;
- Integration with the production environment and company administration (external programs for: stockpiling, billing, accounting, ERP systems);
- Direct operation on production halls;
- Integration with RADWAG weighing systems.

## Designed for operation with scales:

- PS 3Y series;
- Based on indicators models PUE 7.1, PUE HY10.

## Key functions of E2R PGC module:

- Product control in g and ml;
- Destructive and non-destructive control methods;
- Automation of the control process;
- Operator's errors control;
- Two-platform scales operation;
- Two controls on one workstation;
- Synchronization of time on the workstations;
- Sending databases from a computer to weighing instruments:
  - Products;
  - Operators;
  - Time schedules;
- Schedule for periodic product control on selected weighing instrument;
- Reminder about carrying out measurement in an on-going control (signalling option);
- Average tare module for verification of tare correctness and determination of tare;
- Determination of the average tare prior to each control or for a set time interval;
- Record of weighings and controls obtained from the weighing instruments and saving them to a computer;
- Preview of current state of the weighing instrument and the control in the system;
- Measurement record locked for out-of-tolerance tare;
- Measurement record locked for out-of-tolerance net weight;
- Data exchange between external systems;
- User-friendly and flexible reporting mechanisms
  - Generating information on measurements and archived controls from a particular time interval;
  - Data browsing using filtering option;
  - Summary of selected weighing-related information;
  - Reports of single weighings;
  - Determining weighing reports headers;
  - Creating statistical reports of weighings;
  - Changing batch quantity in the control in accordance with the statutory ranges criteria;
  - Changing batch number in the control;
  - Adding individual comments to control report.
- Export of control and weighing reports to the following formats: PDF, HTML, MHT, RTF, XLS, XLSX, CSV, TXT;
- Customization of permission levels for particular operators;
- Customization of graphic interface layout, reports and graphs;
- Multilingual system components;
- Operation in Ethernet, Wi-Fi networks

## E2R PGC system enables preparing reports containing all crucial information on carried out controls, e.g.:

- standard report of the single product control,
- detailed report of the single product control with measurements,
- standard report with graph presenting control measurements,
- report of stability of the control technological process (Cp, Cpg, Cpd);
- report of control from selected time interval;
- report of average tare control;
- brief summary report, detailed summary report and shift report;
- report of carried out controls.

## Basic functions of the workstations:

- quick logging using RFID scanners or barcode scanner,
- uncomplicated selection of data (product, batch, lot, etc.) using barcode scanner,
- integration with the automation system (PLC controllers) via e.g. Profibus, inputs/outputs,
- integration with external displays;
- weighing process statistics.

\* Implementation of particular functions on workstations is conditioned by used weighing instrument and accessories.

## Charts & reports:

Document number	Start date	End date	Batch number	Quantity Qn	Unit	Tare	Operator code	Operator name	Product code	Product name	Web-OK	Scale name	Control type	Control status
U11504/18/06/96/08	6/15/2018 9:56:18 AM	6/15/2018 9:56:28 AM	44	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 synch	Nondestructive Averg...	POSITIVE		
U11504/18/06/96/09	6/15/2018 9:54:37 AM	6/15/2018 9:50:09 AM	44	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 synch	Nondestructive Averg...	POSITIVE		
U11504/18/06/97/08	6/15/2018 9:37:03 AM	6/15/2018 9:37:38 AM	11	321 g	13.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11504/18/06/97/09	6/15/2018 9:22:56 AM	6/15/2018 9:22:26 AM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11504/18/06/97/10	6/15/2018 9:20:11 AM	6/15/2018 9:20:16 AM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11504/18/06/97/11	6/15/2018 9:09:37 AM	6/15/2018 9:10:01 AM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11404/18/12/03/294	6/14/2018 3:49:34 PM	6/14/2018 3:53:34 PM	11	321 g	0.000	1	Adminstra...	104	Towar KXP4	HY10 SQ	Destructive Full-Empty	POSITIVE		
U11404/18/12/03/414	6/14/2018 3:44:23 PM	6/14/2018 3:46:14 PM	44	321 g	0.000	1	Adminstra...	104	Towar KXP4	HY10 synch	Destructive Full-Empty	POSITIVE		
U11404/18/12/03/42011	6/14/2018 3:36:36 PM	6/14/2018 3:42:01 PM	44	321 g	0.000	1	Adminstra...	103	Towar KXP3	HY10 synch	Destructive Full-Empty	POSITIVE		
Z11404/18/12/03/200	6/14/2018 3:36:36 PM	6/14/2018 3:39:30 PM	44	321 g	0.000	1	Adminstra...	103	Towar KXP3	HY10 synch	Destructive Full-Empty	TERMINA...		
U11404/18/12/03/215	6/14/2018 3:28:19 PM	6/14/2018 3:30:19 PM	11	321 g	0.000	1	Adminstra...	103	Towar KXP3	HY10 SQ	Destructive Full-Empty	POSITIVE		
U11404/18/12/03/214	6/14/2018 3:20:14 PM	6/14/2018 3:22:14 PM	44	321 g	0.000	1	Adminstra...	103	Towar KXP3	HY10 synch	Destructive Full-Empty	POSITIVE		
U11404/18/12/18/144	6/14/2018 3:18:23 PM	6/14/2018 3:18:44 PM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11404/18/12/18/000	6/14/2018 2:57:42 PM	6/14/2018 3:08:00 PM	11	321 g	10.000	1	Adminstra...	102	Towar KXP 2	HY10 SQ	Nondestructive Empty...	POSITIVE		
Z11404/18/12/03/715	6/14/2018 2:57:19 PM	6/14/2018 2:57:19 PM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	TERMINA...		
Z11404/18/12/03/649	6/14/2018 2:55:59 PM	6/14/2018 2:56:49 PM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	TERMINA...		
U11404/18/12/14/943	6/14/2018 2:50:09 PM	6/14/2018 2:49:03 PM	44	321 g	0.000	1	Adminstra...	102	Towar KXP 2	HY10 synch	Nondestructive Empty...	POSITIVE		
Z11404/18/12/14/952	6/14/2018 2:47:31 PM	6/14/2018 2:46:52 PM	44	321 g	0.000	1	Adminstra...	102	Towar KXP 2	HY10 synch	Nondestructive Empty...	TERMINA...		
U11404/18/12/14/932	6/14/2018 2:37:57 PM	6/14/2018 2:43:02 PM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11404/18/12/14/200	6/14/2018 2:22:09 PM	6/14/2018 2:20:09 PM	11	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 SQ	Nondestructive Averg...	POSITIVE		
U11404/18/12/14/213	6/14/2018 2:19:27 PM	6/14/2018 2:21:13 PM	44	321 g	10.000	1	Adminstra...	101	Towar KTP 1	HY10 synch	Nondestructive Averg...	POSITIVE		

**CPG DETAIL CONTROL REPORT**  
**NUMBER : U/13/06/18/13/23/30**  
 Print date : 2018-07-06 12:59:48 Page : 1/1

Start Date: 6/13/2018 12:29 PM Scale: HY10 synch  
 Stop Date: 6/13/2018 12:23 PM Operator: Administrator

Product: Towar KTP 1  
 Declared quantity Qn: 321 g  
 Average tare: 5.000 g

The limit values	Description of control
Error value T1: 9.7 g	Batch number: 44
Error value 2T1: 19.4 g	Batch size: 10 pcs
Quantity errors : x-Qn-2T1 0 pcs	
Quantity errors : x-Qn-2T1 0 pcs	
Value qualifying average : 321.000 g	No. of weighings: 10 pcs
	Total quantity: 3,211.00 g
	Max.: 322.00 g
	Min.: 316.00 g
	Standard Deviation: 1.921
Quantity defective Qn-2T1+x-Qn-T1 0 pcs	
Quantity disqualifying x-Qn-2T1 0 pcs	
Average quantity actual : 321.100 g	Control mode: Nondestructive Average Tare

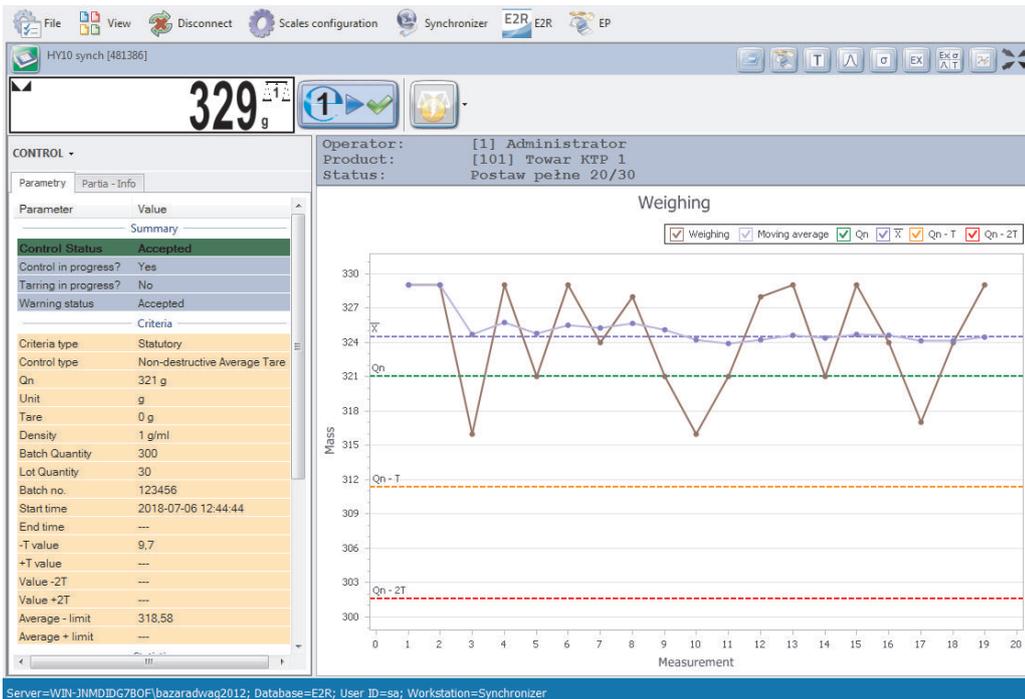
Result of control: **POSITIVE**

Weighings							
No.	Date / Time	Quantity	Result	No.	Date / Time	Quantity	Result
1	6/13/2018 1:22:38 PM	316.0 g	OK	2	6/13/2018 1:23:10 PM	322.0 g	OK
4	6/13/2018 1:23:14 PM	322.0 g	OK	5	6/13/2018 1:23:16 PM	322.0 g	OK
7	6/13/2018 1:23:20 PM	322.0 g	OK	8	6/13/2018 1:23:24 PM	319.0 g	Error Av. - 9
18	6/13/2018 1:23:30 PM	322.0 g	OK		6/13/2018 1:23:29 PM	322.0 g	OK

To control the scale was used: RADWAG Balances and scales Scale name: HY10 synch  
 Symbol of the scale: HY 10 Parameters: dT:e7 Serial number: 481386

Signature of approval: \_\_\_\_\_

Annotations: 0



## The minimum hardware requirements for the client computer or server being part of the weighing system consisting of max 10 weighing instruments:

- A computer with at least: Windows 10, Windows 8.1, Windows 8, Windows 7 (excluding Starter version);
- MS SQL Server 2008 R2 Express or later version;
- Hardware recommendations:
  - dual-core 2 GHz processor or faster,
  - operating memory 3 GB or larger,
  - at least 35 GB of free space on a hard drive,
  - 1280x1024 computer monitor,
  - DVD drive,
  - printer operating in Windows environment,
  - default system font size: (96 dpi)!

## The minimum hardware requirements for server being part of the weighing system consisting of more than 10 weighing instruments:

- A computer with at least: Windows 10, Windows 8.1, Windows 8, Windows 7 (excluding Starter version),
- The software supports servers with operating systems such as: Windows Server 2016, Windows Server 2008 Service Pack 2, Windows Server 2008 R2;
- MS SQL Server 2008 R2 or later version;
- Hardware recommendations:
  - quad-core 3 GHz processor or faster,
  - operating memory 8 GB or larger,
  - at least 50 GB of free space on a hard drive,
  - 1280x1024 computer monitor,
  - DVD drive,
  - printer operating in Windows environment,
  - default system font size: (96 dpi)!