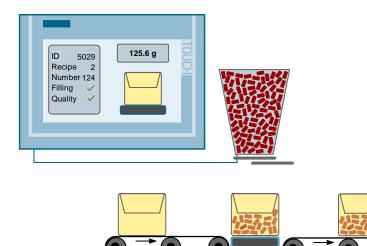
### **SIEMENS**

**Task** 



Load cell





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 Calibrating by means of a reference weight before the beginning of the process

### Frei verwendbar

 Determining the filling weight of a package for quality control in a filling plant

### Frei verwendbar

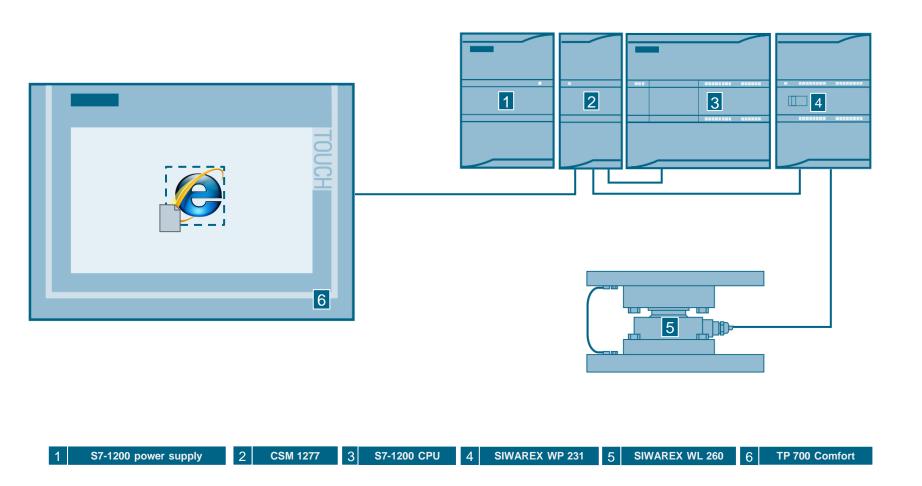
- Measuring the average specific weight of new articles by means of the teach function and capturing it in a recipe management
- Frei verwendbar
- Automatic taring of the scale before every filling process

### Frei verwendbar

- Filling and packaging on the basis of the measured overall weight, compared to a set target number of pieces from a recipe management
- Frei verwendbar
- Documenting the weight with time stamp and ID number by means of the data log function
- Frei verwendbar
- Operator control and monitoring of the process by means of an HMI

**SIEMENS** 

**Automation Solution** 





## **Main components**

		Product	Function description
1	THE STATE OF THE S	Power supply PM 1207  Article no. 6EP1332-1SH71	Supplies the modules with 24V DC
2	-71	CSM 1277  Article no. 6GK7277-1AA10-0AA0	Connecting the network devices by using the switch functionality of the module
3		CPU 1214C DC/DC/DC Article no. 6ES7214-1AG40-0XB0	<ul> <li>Evaluating the current weight and comparing it with the set target number of pieces from the selected recipe</li> <li>Controlling the filling slide valves and the conveyor belts on the basis of the filling weight</li> <li>Calculating the weight of a production unit using the teach function</li> <li>Storing and editing different recipes by means of web browser</li> </ul>
4		SIWAREX WP 231 weighing electronics  Article no. 7MH4960-2AA01	<ul> <li>Evaluating the measured value in the load cell</li> <li>Forwarding the weight to the controller</li> <li>Configuring the load cell before the beginning of the process</li> </ul>
5	Rama	SIWAREX WL 260 Load cell  Article no. 7MH5102-1KD00	Detecting the measuring signal and forwarding to the SIWAREX WP 231 module



## **Main components**

		Product	Function description
6	DANCEM SECOND	SIMATIC HMI TP700 Comfort  Article no. 6AV2124-0GC01-0AX0	<ul> <li>Selecting the required recipe for filling</li> <li>Displaying the selected recipe of the current filling weight and the quality assessment</li> <li>Reading the logged data with the web browser</li> <li>Configuring the SIWAREX WP 231 weighing module</li> </ul>
	0000 C	SIMATIC STEP 7 Basic V15 Article no. 6ES7822-0AA05-0YA5	Configuration and programming of the SIMATIC S7-1200
		SIMATIC WinCC Comfort V15 Article no. 6AV2101-0AA05-0AA5	Configuration and programming of the TP 700 Comfort
		SIWATOOL Article no. 7MH4960-2AK01	(Optional)     Performing a software update of the SIWAREX WP 231 weighing electronics (V3.1.1)



## **Further information**

### **Benefits**

- Cost-effective high-precision weighing by means of SIWAREX load cell
- Automated logging functions provides evidence for the customers
- Easy integration into existing systems due to a connection via PROFINET

### **Sectors of industry**

- Food and packaging industry
- Mechanical engineering

### **Similar topics**

 Extension of this set: Logging User Data by means of RFID (Set 13): <a href="https://support.industry.siemens.com/cs/ww/en/view/96784939">https://support.industry.siemens.com/cs/ww/en/view/96784939</a>

### **Further information**

- Topic page "Easy Entry in LOGO! and SIMATIC S7-1200": https://support.industry.siemens.com/cs/ww/en/view/35923253
- SIEMENS Industry Online Support Portal: https://support.industry.siemens.com/cs/ww/en/



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