

Teltek C80's

Communication possibilities

JSON Protocol, Anybus Protocol, Profinet, Profibus, Sharknet,
Print and apply, Automatic identification, I/O, OPC

JSON protocol

JSON is a minimal, readable format for structuring data.
It is available in each Teltek C80 if the customer wants to activate it.

It is used primarily to transmit data between a server and a client, as an alternative to for example XML.

The two primary parts that make up JSON are keys and values. Together they make a key/value pair.

Key: A key is always a string enclosed in quotation marks.

Value: A value can be a string, number, Boolean array, or object.

Example:

```
"key" : "value"
```

```
"weight" : 102.5
```

```
"weightMessage" : {
```

```
  "weight" : 102.5,
```

```
  "weightClass" : "OK"
```

```
}
```

Features:

- Motor start/stop
- Article change
- Change, add or remove article
- There are different kinds of data you can request from the checkweigher, this means different kinds of article data, production information and the checkweigher specification. To have the checkweigher automatically send certain information you will need to send a subscription message, the subscription will last until the checkweigher is restarted.
- Every individual weight value

Teltek C80 can be adapted to other communication systems, but then customized solutions are required.
For more information contact us at +46 19 311 300

Anybus protocol

The Anybus Communicator is a proven and trusted protocol converter gateway that connects non-networked industrial devices and equipment to Ethernet/IP.



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Profinet

Profinet is the innovative open standard for Industrial Ethernet. With Profinet, solutions can be implemented for factory and process automation, for safety applications, and for the entire range of drive technology right up to clock-synchronized motion control.

Read more

<https://www.anybus.com/technologies/industrial-ethernet/profinet>

<https://www.anybus.com/technologies/industrial-ethernet/profinet#jump1>

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Profibus

Profibus is the leading industrial communication system for manufacturing automation. PROFIBUS consists of a family of three protocol variations (DP, DPV1, DPV2) that can be used with different physical transmission media.

Read more

<https://www.anybus.com/technologies/fieldbus-serial/profibus#jump1>

<https://www.anybus.com/products/gateway-index/anybus-communicator/detail/anybus-communicator---profibus>

Features:

- Change belt speed
- Start/stop conveyor belts on the checkweigher
- Weight – every individual weight value
- Weigher status – error messages

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Sharknet

In cooperation with Cassel Messtechnik GmbH
Teltek supplies a wide range of X-ray systems and metal detectors for product inspection. We have many years' experience in the field of product inspection and will happily guide you in order to find the best solution for your application.

Local communication between checkweigher and metal detector.
When the operator activates a new article in the checkweigher a request for change is sent to the metal detector. The metal detector will activate the article with a name corresponding to the information on the line "metal" in the article register of the checkweigher. As standard for combo units we have this function for Cassel metal detector, and the information is sent on serial interface/RS232. As option we have the possibility to offer this for any brand of metal detector, either though RS232 or Ethernet.



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Print and apply

In cooperation with

- Evolabel
- HM systems
- Honeywell

Evolabel

The article register has additional fields for the communication.

Layouts: it is possible to use both top and bottom labeler layout Individual

layout id selections for top and bottom labelling are used to set-up the printers

for each batch. If a field is blank then the checkweigher will not send any data

to that printer.

Weight: The checkweigher sends the weight in grams through the variable "w1_g" and in kilograms through the variable "ScaleWeightKg".

These values will always be sent.

Batch number: Sent through the variable "batch_nr"

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Automatic identification

In cooperation with Datalogic

Features:

- Change article
- Text information on the packaging is correct.
- Check that all jars are included in each box.
- Make sure the label is correctly applied and has the correct barcode.
- Finding products that are not fully closed or bottles where the cap is not properly attached.

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Communication – I/O

- Filling scales
Windows-based solutions with intuitive user interfaces,
touch screen and I / O.

Example of sequence:

Infeed of empty bucket, bucket positioned in filling position,
filling startup, coarse/fine filling, filling completed, outfeed of
filled bucket, etc.

- Weigher running

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OPC

Possibility to communicate via OPC. The checkweigher runs an OPC server that listens to port 4840.

The checkweigher sends all weights, weight classification, statistics and information about active article.

It is also possible to start/stop the conveyors and activate an article.

Protocol

See separate protocol.

More information

Read more about OPC:

<https://opcfoundation.org/about/opc-technologies/opc-ua/>

<https://opcua.traeger.de/en/>

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