

WebSocket

Communication Protocol:

PUE 5 indicator

TMX scales

SOFTWARE MANUAL

ITKP-54-01-04-24-EN



RADWAG®
RADWAG BALANCES AND SCALES
ADVANCED WEIGHING TECHNOLOGIES

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1. INTRODUCTION

Communication with the weighing indicator is done via WebSocket. You must establish a connection using this protocol on port 4101(Default) and send any data in JSON format.

You can use this protocol to query the mass, tare, zero or set the tare.

1.1. Get mass

The mass can be read using the command:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "GetMass"  
}
```

Response:

```
{  
  "NetAct": {  
    "Value": "226",  
    "Unit": "g",  
    "Precision": 0,  
    "Unrounded": 0  
  },  
  "NetCal": {  
    "Value": "226",  
    "Unit": "g",  
    "Precision": 0,  
    "Unrounded": 0  
  },  
  "Div": null,  
  "Tare": "54",  
  "Range": "",  
  "Max": "3009",  
  "MaxAct": 3009.0,  
  "IsStab": true,  
  "IsTare": true,  
  "IsZero": false,  
  "IsTareGiven": false,  
  "AwardedDigit": 0,  
  "WeighingStatus": "Ok",  
  "AutoCalibrationStatus": null,  
  "PlatformIndex": 0  
}
```

Where:

NetAct	Mass in current unit.
NetCal	Mass in calibration unit.

1.2. Tarring

You can tare by using the command:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "Tarring"  
}
```

Response:

```
{  
  "COMMAND": "EXECUTE_ACTION",  
  "PARAM": "Tarring",  
  "STS": "OK"  
}
```

If the taring is successful the STS field will be OK. However, if the tare range is exceeded, STS will be ExceededRange.

1.3. Zeroing

You can zeroing using the command:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "Zeroing"  
}
```

Response:

```
{  
  "COMMAND": "EXECUTE_ACTION",  
  "PARAM": "Zeroing",  
  "STS": "OK"  
}
```

If the reset is successful the STS field will be OK. However, if the STS zeroing range is exceeded, it will be ExceededRange.

1.4. Set tare

You can set the tare by using the command:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "SetTare",  
  "VALUE": 6.5  
}
```

The tare value must be entered in the VALUE field.

Response:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "SetTare",  
  "STS": "OK"  
}
```

1.5. Change active platform

You can change active platform by using the command:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "ChangePlatform"  
}
```

Response:

```
{  
  "COMMAND": "MASS_MANAGER",  
  "PARAM": "ChangePlatform",  
  "STS": "OK"  
}
```



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