Version 1.00

User's Guide

M2200

P02 1001 Application

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P02 1001 Application

In General

This is a technical description of the M2200-P02 1001 application.

The application's Lua source code is available from Marel hf free of charge but subject to conditions. For more information please contact service@marel.is.

The "Programming" chapter of the *M2200 P02 & M02 Packing Scale User's Guide* contains more information on Lua scripts and M2200 programming.

About P02 1001

P02 1001 is an MPS-compatible M2200 application for a general purpose terminal scale.

Host Interface

Standard Interface

The P02 1001 application supports the standard M2200 terminal program interface. See separate documentation for this interface.

Specific Interface

ID button message

A REC_IDBUTTON message is sent to the persistent output queue when an ID button is read. The message is only sent if there is an open socket connection on the output queue.

Field	ID Value	Value
REC_IDBUTTON	80	N/a
FLD_BUTTONID	55	Button number

Table 1 REC_IDBUTTON format.

Sample message:

<STX>(80<TAB>55<TAB>9f000002fe64d609<ETX>

Serial port 2 message

A REC_SCAN message is sent to the persistent output queue when serial data is input to comm port 2. The message is only sent if there is an open socket connection on the output queue.

Field	ID Value	Value
REC_SCAN	84	N/a
FLD_SCAN	60	Serial input
FLD_PORTID	62	Port ID

Table 2: REC_STATE format

Sample message:

<STX>(84<TAB>60<TAB>780879306045<TAB>62<TAB>2<ETX>

Weight message

A REC_WEIGHT message is sent to the persistent output queue when the record button is pressed, and a valid weight can be recorded.

Field	ID Value	Value
REC_WEIGHT	3	N/a
FLD_WEIGHT	1	Recorded weight
FLD_UNIT	2	Weighing unit

Table 3: REC_WEIGHT format

Sample message:

<STX>(3<TAB>1<TAB>0.96<TAB>2<TAB>kg<ETX>

Weight status message

A REC_STATUS message is sent to the persistent output queue when the scale has a new stable weight.

Field	ID Value	Value
REC_STATUS	14	N/a
FLD_WEIGHT	1	Current weight
FLD_UNIT	2	Weighing unit
FLD_STATUS	11	Weight status string
FLD_TARE	59	Current tare
FLD_TARETYPE	81	Tare type, “preset” or “button”

Table 4: REC_STATUS format

The message is only sent if there is an open socket connection on the output queue.

Additionally, the message is only sent automatically if the steady weight event is active. This event is normally activated by the application program but can be set manually by accessing the System page and selecting **Settings → General Events → When weight becomes steady**.

The message can also be requested by the application program by sending a REC_LUA message to the indicator, see below.

Sample message:

<STX>(14<TAB>1<TAB>-0.96<TAB>2<TAB>kg<TAB>11<TAB>szt<TAB>59<TAB>0.96<TAB>81<TAB>button<ETX>

The weight status strings contains three letters:

- The first letter is either “s” for stable or “m” for unstable.
- The second letter is “z” if the scale is at zero or “n” if not.
- The third letter is “t” if there is an active tare or “n” if not.

REC_LUA messages to the indicator

REC_LUA messages are application specific control messages for the indicator. These messages do not define identifiers for individual fields.

Field	ID Value	Value
REC_LUA	87	N/a
#1	1	Lua command.
#2	1	Send weight status message

Table 5: REC_LUA messages

Sample message:

<STX>(87<TAB>1<TAB>1<ETX>