



Recent software updates have included additional functionality to the PT200M, PT200P and PT200X.

These added features apply only to these indicators with version 4.00 or above software. The following describes changes to the standard PT Manuals.

In the BUILD group the following item has been added after RES to enable a dual range scale to be configured. This applies to PT200M, PT200P and PT200X. This item may also be called GRADS. The item value should still be checked for single range setup in case the default forces dual range after changes to the build. If you don't want to use dual range, set DUAL (or GRADS) = 060000

DUAL (GRADS) (Number of Graduations) ⊗	Sets the number of graduations to be used for range 1 of the scale. If the DUAL multiplied by the RES is less than CAP, then dual range will be automatically enabled, otherwise DUAL will be ignored. Range: 000100 to 060000 Default: 060000
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Example: DP=0, CAP=5000, RES=2, GRADS=1000

The scale will weigh from 0 - 2000 with increment 2. This is range 1, 1 will display at the bottom of the screen.

The scale will weigh from 2000 - 5000 with increment 5. This is range 2, 2 will display at the bottom of the screen. As the load decreases, the increment will stay at 5 (range 2) until the scale is at 0 and then the scale will change back to range 1.

The UNITS item in the BUILD group has additional units.

UNITS (Weighed Units) ⊗	Sets the units for display and printing. Options are: (g) grams, (kg) kilograms, (lb) pounds, (t) tonnes, (o) ounces, () none (ie. other units). Default: kg
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In the CAL group of the PT200M, PT200P and PT200X, the items below have been added after DIR.SPN to facilitate relocation of the scale after calibration to a location with different gravitational acceleration without the need to re-calibrate.

G.INST (Installation Gravity) ⊗	Select to enter the gravitational acceleration of the location at which the scale is installed. Only necessary when using the Gravity Compensation feature. Range 9.750 to 9.860 Default: 9.810
G.FAC (Factory Gravity) ⊗	Select to enter the gravitational acceleration of the location at which the scale is calibrated. Only necessary when using the Gravity Compensation feature. Range 9.750 to 9.860 Default: 9.810
G.FIRST (First power up prompt) ⊗	Select to set the indicator to prompt the user to enter the Installation Gravity on next power up. Only necessary when using the Gravity Compensation feature. Options ON, OFF Default: OFF



For the PT200M, PT200P and PT200X the following item are inserted after FAC.CAL

USR.CAL (Restore Default Calibration) ⊗	Select this choice to restore default calibration. This restores all calibration critical settings in the CAL menu back to stored defaults. The instrument will prompt with Cont. N . Press <EDT> to change to Cont. Y and <OK> to continue. If Cont. Y is chosen and then <OK> or <ITM> is pressed, the instrument will display DONE to indicate that the operation has been completed.
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In the SPEC group, the following item has been added after REM.FN for the PT200M, PT200P and PT200X

REM.CHR (Remote Input Transmit Idle Character)	The remote input transmit idle character specifies the character to be transmitted whilst the serial transmitter is idle, regardless of the state of the DTR line. This character is only transmitted when a remote function (SPEC:REM.FN) is enabled, and serial port type (SERIAL:TYPE) is set to PRINT or AUTO.PR. This function allows the remote input to function even when a printer is connected. This character must be chosen so it is ignored by the printer. Typically the ENQ (ASCII 05) character is suitable. Range 000 to 255 Default: 005
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In the SPEC group the following item has been added after REM.CHR in the PT200M and PT200P.

BAT.VLT (Battery Voltage)	Default: PWR A low battery annunciator will be displayed at 10% above low battery level. The indicator will assume it is on battery power when its input voltage is less than twice the low battery level for the selected battery voltage. In the PWR mode the indicator will always assume it has external power. Correct function of the low battery warning is dependent on correct setting of the battery than twice the low battery level for the selected battery voltage. In the PWR mode the indicator will always assume it has external power. Correct function of the low battery warning is dependent on correct setting of the battery voltage. <table border="1" data-bbox="555 1507 1409 1944"> <thead> <tr> <th>Battery Voltage</th> <th>Low Battery Level</th> </tr> </thead> <tbody> <tr> <td>4.8V</td> <td>4V</td> </tr> <tr> <td>7.2V</td> <td>6V</td> </tr> <tr> <td>9.6V</td> <td>8V</td> </tr> <tr> <td>12V</td> <td>10V</td> </tr> <tr> <td>24V</td> <td>20V</td> </tr> <tr> <td>PWR</td> <td>NO BATTERY</td> </tr> <tr> <td>Li-Ion</td> <td>12V</td> </tr> </tbody> </table>	Battery Voltage	Low Battery Level	4.8V	4V	7.2V	6V	9.6V	8V	12V	10V	24V	20V	PWR	NO BATTERY	Li-Ion	12V
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Following BAT.VLT the PT200X has W.D.LOCK.

W.D.LOCK (Wash Down Key Lock)	<p>This item requires a sequence of keys to be pressed when the instrument is turned on. If an incorrect key is pressed or the key is not pressed within 5 seconds then the instrument will turn back off.</p> <p>OFF: Key lock is off ON: Key lock is on Default: OFF</p>
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For the PT200M, PT200P and PT200X the following functions then follow.

E.UNITS (Extended unit switching)	<p>Extended unit switching. Add ounces and grams to the existing pounds and kilogram unit switching.</p> <p>Options: ON, OFF Default: OFF</p>
QCK.CAL (Quick calibration)	<p>Enable the quick calibration through long press of the zero key. Refer to Quick Calibration in page 29 for more information.</p> <p>Options: ON, OFF Default: OFF</p>
BUZZER	<p>Enable or disable the buzzer sound that emanates when keys are pressed.</p> <p>Options: ON, OFF Default: ON</p>
LB-OZ (lb. and oz. Display)	<p>Display weights in ounces (oz) as pounds and ounces (lb:oz).</p> <p>Options: ON, OFF Default: OFF</p>
PWR.FN (Power Function)	<p>The Power Function sets the function of a short press of the <POWER> key.</p> <p>Options: NONE, UNITS Default: NONE</p>

In the SERIAL group for the PT200M, PT200P and PT200X, the FORMAT item has been replaced with the AUT.FMT item below.

AUT.FMT (Serial Output Format)	<p>The Format determines the transmission format for AUTO and SINGLE serial types.</p> <ul style="list-style-type: none"> • FMT_1: Format 1 Ranger A. • FMT_2: Format 2 Ranger C. • MASTER: Send contents of LCD display to a remote display. • CUSTOM: Send a custom print string to a remote display. • FMT_3: Gedge C2 • FMT_4: AnD • FMT_5: Condec • FMT_6: Ranger C with D840 traffic light support
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In the SERIAL group for the PT200M, PT200P and PT200X, the following items have been added after BITS. Note that RST.CON is in the current manual.

<p>ADDRES (Instrument Address)</p>	<p>Use this option to set the instrument address when operating with network communications.</p> <ul style="list-style-type: none"> • Range 01 to 31 • Default: 31
<p>AUT.SPD Auto Output Speed)</p>	<p>Use this option to set the Auto Output Speed for the instrument. There are four speeds to choose from 10, 5, 2 & 1Hz. If using a remote input Auto Output Speed must be set to 10Hz.</p>
<p>SHOW.T (Show Totals)</p>	<p>The SHOW.T item stands for Show Total. When enabled the total will be displayed following each printout. This can be useful if the function key is being used for another purpose.</p>
<p>RST.CON (Reset Printed Consecutive Number) ⊗</p>	<p>Use this option to reset the printed consecutive number back to 1. The instrument will prompt with Cont. N. Press <EDT> to change to Cont. Y and <OK> to continue. When Cont. Y has been chosen the instrument will display DONE to indicate that the operation has been completed.</p>
<p>I.LOCK (Print Interlock)</p>	<p>Sets the type of printing interlock to be used. Options are:</p> <ul style="list-style-type: none"> • NONE • MOTION: Printing is enabled every time the scale becomes stable. • RET.Z: Printing is enabled after the scale has returned to zero and is stable. <p>Default: NONE</p>
<p>S.RESP (Simple Response)</p>	<p>Use this option to set if the indicator responds or not when serial type is set to simple network. Options:</p> <ul style="list-style-type: none"> • OFF • ON • Default: OFF

In the CHECK.W group of the PT200X the ENABLE item has been updated.

<p>ENABLE</p>	<p>Enable check weighing. There are three modes to select OFF: Check weighing is disabled (turned off). ABS (Absolute): Check weighing is enabled (turned on). REL (Relative weight): Check weighing with targets with high and low tolerances REL.PC(Relative weight percentage): Same as Relative weight mode but tolerance settings entered as percentage of main target rather than in weight units Default: OFF</p>
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After the SET.PTS group in the PT200M and PT200P and CHECK.W group in the PT200X a new LIVE group has been added as below.

DELAY (Time Delay)	The time in seconds that the indicator will wait after the target weight is exceeded before it starts collecting weight samples. Range: 0 to 200 Default: 0
SAMPLE (Sample Time)	The number of second worth of weight samples to collect. Range: 0 to 20 Default: 3
TOL (Number of Discards)	Indication of how many noisy samples to discard, where 1 discards the least and 9 discards the greatest number of samples. Range: 0 to 9 Default: 4

RETRIG (Retrigger Percentages)	This is the percentage that the weight on the scale must change by to restart the live wieghing process once a held weight has been captured. A value of 0 means that automatic retriggering is disabled. Range: 0 to 30 Default: 10
TARGET	The weight to be exceeded before the indicator will start the livestock weighing function. Range: -99999 to 999999 Default: 0

In the CLOCK group of the PT200M, PT200P and PT200x, after the MINUTE item, the following additional items have been inserted.

QA.OPT (Quality Assurance Feature)	Turn the quality assurance feature on or off. Options: ON, OFF Default: OFF
QA.YEAR (Set Year for QA)	Set year for quality assurance. Range: 2000 to 2099
QA.MONTH (Set Month for QA)	Set month for quality assurance. Range: 01 to 12
QA.DAY (Set Day for QA)	Set day for quality assurance. Range: 01 to 31



In the FACTORY group of the PT200M, PT200P and PT200X the DEFLT reset item has been split into two items (factory defaults and user defaults).

There are two additional items APP.ID and L.CODE.

Do not alter these or you may need to return the instrument.

<p>FAC.DEF (Restore Factory Settings Except for Calibration)</p>	<p>Restores all settings in the digital setup that are not calibration critical back to the original new settings installed at the factory. The main use of this routine is to completely reset an instrument that is being installed on a different scale. The instrument will prompt with Cont. N. Press <EDT> to change to Cont. Y and <OK> to continue. When Cont. Y has been chosen the instrument will display DONE to indicate that the operation has been completed.</p> <p>Restoring the factory options does not affect the calibration. To reset the calibration to factory condition CAL:FAC.CAL must be used. Refer to FAC.CAL (Restore Default Factory Calibration) ⊗ page 34. This menu item is only available when in Full Digital Setup mode.</p>
<p>USR.DEF (Restore Default Settings Except for Calibration)</p>	<p>Restores all settings in the digital setup, which are not calibration critical back to the stored default settings. The main use of this routine is to reset an instrument back to the settings it was delivered with. The instrument will prompt with Cont. N. Press <EDT> to change to Cont. Y and <OK> to continue. When Cont. Y has been chosen the instrument will display DONE to indicate that the operation has been completed.</p> <p>Restoring the factory options does not affect the calibration. To reset the calibration to factory condition CAL:USR.CAL must be used. Refer to USR.CAL (Restore Default Calibration) ⊗ page 35. This menu item is only available when in Full Digital Setup mode.</p>
<p>APP.ID (Set Firmware)</p>	<p>Use this option to select the firmware type for the instrument. Licence code should be entered after a new firmware type is selected. To enter Licence code FACTRY:L.CODE can be used.</p> <p>Options are: K376, K378</p>
<p>L.CODE (Licence Code)</p>	<p>Enter the Licence code for selected firmware. The instrument will prompt with K37x Enter Code. Then enter six-digit Licence code.</p>