

## General information

The UWT 6008 weight transmitter comes from the Pavone Systems experience. It is a unique product in the weight transmitter family and is ideal for all industrial applications where it is necessary to know the load distribution on the different cells. It is able to monitor all load cells and generate alarms due to excessive cell signal drift, missing connections, failure of one of the cells, unbalanced weight distribution. The emulative control allows the continuity of work of the weighing system even in case of failure on one of the load cells, up to the replacement of the same. The Software Optimation is given for free. This Software allows you to run certain activities such as calibration or monitoring directly from your computer. The Optimation software is provided by Pavone Systems and guarantees a perfect instrument run.





Software Optimation 1.3.12: optimation\_weighing\_software.zip

Technical Manual: uwt-6008\_en.pdf





## SCIGATE AUTOMATION (S) PTE LTD

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## Technical specifications

PVS27720191003

Measuring range:         3.9 + + 3.9 m/V           Input sensitivity:         0.02 p//count           Full scale non-Linearity:         4.001%           Gain drift:         < 0.001% FS/°C           Display:         128 x 64-pixel graphic LCD           AID Converter:         24 bits           Internal Resolution:         > 16.000.000 points           Trasducer input voltage:         5 Vdc (max. 230 mA)           Frequency signal acquisition:         12.5 + 300 Hz           Visible resolution (in divisions):         999999           Divisions value (adjustable):         x1, x2, x5, x10, x20, x50           Decinal figures range:         10 + + 50°C (humidity max 85% no condensation)           Storage temperature:         20 + 70°C           Filter:         5 + 250 Hz           Logic output:         2 relays, Max. 48 Vac/Vdc, 2A each           Logic input:         2 opto-isolated at 12/24 Vdc PNP (external power supply)           Serial port:         1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU           Analog output Non-Linearity:         < 0.02%           Temperature drift analog output:         0.001% FS°C           Power supply:         4 Kbyres expandable up to 1024 Kbyres           Microcontrollor:         ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board fr		
Full scale non-Linearity:	Measuring range:	-3.9 ÷ +3.9 mV/V
Gain drift:         < 0.001% FS/°C           Display:         128 x 64-pixel graphic LCD           A/D Converter:         24 bits           Internal Resolution:         > 16.000.000 points           Trasducer input voltage:         5 Vdc (max. 230 mA)           Frequency signal acquisition:         12.5 ÷ 300 Hz           Visible resolution (in divisions):         99999           Divisions value (adjustable):         x1, x2, x5, x10, x20, x50           Decimal figures range:         0 ÷ 4           Temperature range:         -10 ÷ + 50°°C (humidity max 85% no condensation)           Storage temperature:         -20 ÷ +70°°C           Filter:         5 ÷ 250 Hz           Logic output:         2 relays, Max. 48 Vac/Vdc, 2A each           Logic input:         2 opto-isolated at 12/24 Vdc PNP (external power supply)           Serial port:         1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU           Analog output Non-Linearity:         < 0,02%           Temperature drift analog output:         0,001% FS/°C           Power supply:         12-24 Vdc ±15% - Power consumption 4 W           Microcontroller:         ARM Cortex MO+ at 32 bits, 256KB Flash reprogrammable on-board from USB           Data storage:         64 Kbytes expandable up to 1024 Kbytes           Regulatory compliance: </th <th>Input sensitivity:</th> <th>0.02 μV/count</th>	Input sensitivity:	0.02 μV/count
Display:         128 x 64-pixel graphic LCD           A/D Converter:         24 bits           Internal Resolution:         > 16,000,000 points           Trasducer input voltage:         5 Vdc (max. 230 mA)           Frequency signal acquisition:         12.5 ÷ 300 Hz           Visible resolution (in divisions):         999999           Divisions value (adjustable):         x1, x2, x5, x10, x20, x50           Decimal figures range:         0 ÷ 4           Temperature range:         -10 ÷ + 50°C (humidity max 85% no condensation)           Storage temperature:         -20 ÷ +70°C           Filter:         5 ÷ 250 Hz           Logic output:         2 relays, Max. 48 Vac/Vdc, 2A each           Logic input:         2 opto-isolated at 12/24 Vdc PNP (external power supply)           Serial port:         1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU           Analog output Non-Linearity:         < 0,02%           Temperature drift analog output:         0,001% FS/°C           Power supply:         12-24 Vdc ±15% - Power consumption 4 W           Microcontroller:         ARM Cortex MO+ at 32 bits, 256KB Flash reprogrammable on-board from USB           Data storage:         64 Kbytes expandable up to 1024 Kbytes           Regulatory compiliance:         EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safet	Full scale non-Linearity:	<0.01%
A/D Converter: 24 bits  Internal Resolution: > 16.000.000 points  Trasducer input voltage: 5 Vdc (max. 230 mA)  Frequency signal acquisition: 12.5 ÷ 300 Hz  Visible resolution (in divisions): 999999  Divisions value (adjustable): x1, x2, x5, x10, x20, x50  Decimal figures range: 0 ÷ 4  Temperature range: 10 ÷ + 50°C (humidity max 85% no condensation)  Storage temperature: -20 ÷ + 70°C  Filter: 5 ÷ 250 Hz  Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each  Logic output: 2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity: < 0,02°%  Temperature drift analog output: 0,001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex MO+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells: 1 ÷ 8	Gain drift:	< 0.001% FS/°C
Internal Resolution:	Display:	128 x 64-pixel graphic LCD
Trasducer input voltage: 5 Vdc (max. 230 mA)  Frequency signal acquisition: 12.5 ÷ 300 Hz  Visible resolution (in divisions): 999999  Divisions value (adjustable): x1, x2, x5, x10, x20, x50  Decimal figures range: 0 + 4  Temperature range: 10 ÷ + 50°C (humidity max 85% no condensation)  Storage temperature: 20 ÷ 70°C  Filter: 5 ÷ 250 Hz  Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each  Logic input: 2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity: < 0.02%  Temperature drift analog output: 0.001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex MO+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: 64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance: 1 + 8	A/D Converter:	24 bits
Frequency signal acquisition:  12.5 ÷ 300 Hz  Visible resolution (in divisions):  99999  Divisions value (adjustable):  x1, x2, x5, x10, x20, x50  Decimal figures range:  0 ÷ 4  Temperature range:  -10 ÷ + 50°C (humidity max 85% no condensation)  Storage temperature:  -20 ÷ +70°C  Filter:  5 ÷ 250 Hz  Logic output:  2 relays, Max. 48 Vac/Vdc, 2A each  Logic input:  2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port:  1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity:  -0,02%  Temperature drift analog output:  0,001% FS/°C  Power supply:  12-24 Vdc ±15% - Power consumption 4 W  Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage:  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells:  1 ÷ 8	Internal Resolution:	> 16.000.000 points
Visible resolution (in divisions):       999999         Divisions value (adjustable):       x1, x2, x5, x10, x20, x50         Decimal figures range:       0 ÷ 4         Temperature range:       -10 ÷ + 50°C (humidity max 85% no condensation)         Storage temperature:       -20 ÷ +70°C         Filter:       5 ÷ 250 Hz         Logic output:       2 relays, Max. 48 Vac/Vdc, 2A each         Logic input:       2 opto-isolated at 12/24 Vdc PNP (external power supply)         Serial port:       1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU         Analog output Non-Linearity:       < 0.02%         Temperature drift analog output:       0,001% FS/°C         Power supply:       12-24 Vdc ±15% - Power consumption 4 W         Microcontroller:       ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB         Data storage:       64 Kbytes expandable up to 1024 Kbytes         Regulatory compliance:       EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology         Number of load cells:       1 ÷ 8	Trasducer input voltage:	5 Vdc (max. 230 mA)
Divisions value (adjustable):  x1, x2, x5, x10, x20, x50  Decimal figures range:  -10 ÷ + 50°C (humidity max 85% no condensation)  Storage temperature:  -20 ÷ +70°C  Filter:  5 ÷ 250 Hz  Logic output:  2 relays, Max. 48 Vac/Vdc, 2A each  Logic input:  2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port:  1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity:  < 0,02%  Temperature drift analog output:  0,001% FS/°C  Power supply:  12-24 Vdc ±15% - Power consumption 4 W  Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage:  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  1 ÷ 8	Frequency signal acquisition:	12.5 ÷ 300 Hz
Decimal figures range:       0 ÷ 4         Temperature range:       -10 ÷ + 50°C (humidity max 85% no condensation)         Storage temperature:       -20 ÷ +70°C         Filter:       5 ÷ 250 Hz         Logic output:       2 relays, Max. 48 Vac/Vdc, 2A each         Logic input:       2 opto-isolated at 12/24 Vdc PNP (external power supply)         Serial port:       1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU         Analog output Non-Linearity:       < 0,02%         Temperature drift analog output:       0,001% FS/°C         Power supply:       12-24 Vdc ±15% - Power consumption 4 W         Microcontroller:       ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB         Data storage:       64 Kbytes expandable up to 1024 Kbytes         Regulatory compliance:       EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology         Number of load cells:       1 ÷ 8	Visible resolution (in divisions):	999999
Temperature range: -10 ÷ + 50°C (humidity max 85% no condensation)  Storage temperature: -20 ÷ +70°C  Filter: 5 ÷ 250 Hz  Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each  Logic input: 2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity: < 0,02%  Temperature drift analog output: 0,001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: 64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance: 1 ÷ 8	Divisions value (adjustable):	x1, x2, x5, x10, x20, x50
Storage temperature: -20 ÷ +70°C  Filter: 5 ÷ 250 Hz  Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each  Logic input: 2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity: 4 0,02%  Temperature drift analog output: 0,001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: 64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance: 1 ÷ 8	Decimal figures range:	0 ÷ 4
Filter: 5 ÷ 250 Hz  Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each  Logic input: 2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity: < 0,02%  Temperature drift analog output: 0,001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: 64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells: 1 ÷ 8	Temperature range:	-10 ÷ + 50°C (humidity max 85% no condensation)
Logic output: 2 relays, Max. 48 Vac/Vdc, 2A each  Logic input: 2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port: 1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity: < 0,02%  Temperature drift analog output: 0,001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: 64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells: 1 ÷ 8	Storage temperature:	-20 ÷ +70°C
Logic input:  2 opto-isolated at 12/24 Vdc PNP (external power supply)  Serial port:  1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  Analog output Non-Linearity:  < 0,02%  Temperature drift analog output:  0,001% FS/°C  Power supply:  12-24 Vdc ±15% - Power consumption 4 W  Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage:  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells:  1 ÷ 8	Filter:	5 ÷ 250 Hz
Serial port:  1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU  4 nalog output Non-Linearity:  0,002%  Temperature drift analog output:  0,001% FS/°C  Power supply:  12-24 Vdc ±15% - Power consumption 4 W  Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage:  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells:  1 ÷ 8	Logic output:	2 relays, Max. 48 Vac/Vdc, 2A each
Analog output Non-Linearity: < 0,02%  Temperature drift analog output: 0,001% FS/°C  Power supply: 12-24 Vdc ±15% - Power consumption 4 W  Microcontroller: ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage: 64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance: EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells: 1 ÷ 8	Logic input:	2 opto-isolated at 12/24 Vdc PNP (external power supply)
Temperature drift analog output:  0,001% FS/°C  12-24 Vdc ±15% - Power consumption 4 W  Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage:  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells:  1 ÷ 8	Serial port:	1 USB device + 1 RS232C + 1 RS485, Fieldbus, ASCII or Modbus RTU
Power supply:  12-24 Vdc ±15% - Power consumption 4 W  Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  Data storage:  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells:  1 ÷ 8	Analog output Non-Linearity:	< 0,02%
Microcontroller:  ARM Cortex M0+ at 32 bits, 256KB Flash reprogrammable on-board from USB  64 Kbytes expandable up to 1024 Kbytes  Regulatory compliance:  EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology  Number of load cells:  1 ÷ 8	Temperature drift analog output:	0,001% FS/°C
Data storage:       64 Kbytes expandable up to 1024 Kbytes         Regulatory compliance:       EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology         Number of load cells:       1 ÷ 8	Power supply:	12-24 Vdc ±15% - Power consumption 4 W
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Number of load cells: 1 ÷ 8	Data storage:	64 Kbytes expandable up to 1024 Kbytes
<b>Dimensions:</b> 100 x 75 x 110 mm (L x H x P)	Regulatory compliance:	EN61000-6-2, EN61000-6-3 for EMC; EN61010-1 for Electrical Safety, EN45501 for metrology

All indicated data may be changed without notice.
All the measures indicated are expressed in millimeters (mm)







