

Honeywell HVT Payload format of Port2 packet:

| Byte Position | Length (Bytes) | Minimum | Maximum | Data |
|---------------|----------------|---------|------------|---|
| 0 | 4 | 0 | 0xFFFFFFFF | Timestamp. 32 bit Unix time format. |
| 4 | 1 | -40 | 80 | Maximum Device Temperature in degree Celsius |
| 5 | 1 | -40 | 80 | Minimum Device Temperature in degree Celsius |
| 6 | 1 | -40 | 80 | Average (mean) Device Temperature in degree Celsius |
| 7 | 1 | -40 | 80 | Maximum Minimum Surface Temperature in degree Celsius |
| 8 | 1 | -40 | 80 | Minimum Surface Temperature in degree Celsius |
| 9 | 1 | -40 | 80 | Average (mean) Surface Temperature in degree Celsius |
| 10 | 1 | 0 | 255 | Maximum Pressure values in hPa from 300 to 1065 hPa. 0=> 300hPa & 255=>1065hPa. Resolution of ~3hPa. |
| 11 | 1 | 0 | 255 | Minimum Pressure values. Unit same as above. |
| 12 | 1 | 0 | 255 | Average (mean) Pressure values. Unit same as above. |

| | | | | |
|----|---|---|-----|--|
| 13 | 1 | 0 | 100 | <p>Maximum Humidity in %RH.</p> <p>Value of 0=>0%RH & 100=> 100%RH. Resolution of 1%RH</p> |
| 14 | 1 | 0 | 100 | <p>Minimum Humidity in %RH.</p> <p>Value of 0=>0%RH & 100=> 100%RH. Resolution of 1%RH</p> |
| 15 | 1 | 0 | 100 | <p>Average(mean) Humidity in %RH.</p> <p>Value of 0=>0%RH & 100=> 100%RH. Resolution of 1%RH</p> |
| 16 | 1 | 0 | 157 | <p>Maximum Vibration Acceleration X axis.</p> <p>Value = (data / 9.8). Unit is "g"</p> |
| 17 | 1 | 0 | 157 | <p>Minimum Vibration Acceleration X axis.</p> <p>Resolution same as X axis described above.</p> |
| 18 | 1 | 0 | 157 | <p>RMS Vibration Acceleration X axis. Resolution same as X axis described above.</p> |
| 19 | 1 | 0 | 157 | <p>Maximum Vibration Acceleration Y axis.</p> <p>Resolution same as X axis described above.</p> |
| 20 | 1 | 0 | 157 | <p>Minimum Vibration Acceleration Y axis.</p> <p>Resolution same as X axis described above.</p> |

| | | | | |
|----|---|---|-----|---|
| 21 | 1 | 0 | 157 | RMS Vibration Acceleration Y axis. Resolution same as X axis described above. |
| 22 | 1 | 0 | 157 | Maximum Vibration Acceleration Z axis. Resolution same as X axis described above. |
| 23 | 1 | 0 | 157 | Minimum Vibration Acceleration Z axis. Resolution same as X axis described above. |
| 24 | 1 | 0 | 157 | RMS Vibration Acceleration Z axis. Resolution same as X axis described above. |
| 25 | 1 | 0 | 200 | Maximum Vibration Velocity X axis RMS value. Resolution same as X axis described above. |
| 26 | 1 | 0 | 200 | Minimum Vibration Velocity X axis RMS value. Resolution same as X axis described above. |
| 27 | 1 | 0 | 200 | RMS Vibration Velocity X axis. Resolution same as X axis described above. |
| 28 | 1 | 0 | 200 | Maximum Vibration Velocity Y axis. Resolution same as X axis described above. |
| 29 | 1 | 0 | 200 | Minimum Vibration Velocity Y axis. Resolution same as X axis described above. |
| 30 | 1 | 0 | 200 | RMS Vibration Velocity Y axis. Resolution same as X axis described above. |

| | | | | |
|----|---|---|-----|--|
| 31 | 1 | 0 | 200 | Maximum Vibration Velocity Z axis. Resolution same as X axis described above. |
| 32 | 1 | 0 | 200 | Minimum Vibration Velocity Z axis. Resolution same as X axis described above. |
| 33 | 1 | 0 | 200 | RMS Vibration Velocity Z axis. Resolution same as X axis described above. |
| 34 | 1 | 0 | 120 | Mean (Average) Acoustic SPL. Values in dbSPL (Sound Pressure Level). Resolution 1dbSPL |
| 35 | 1 | 0 | 120 | Maximum Acoustic SPL. Values in dbSPL (Sound Pressure Level). Resolution 1dbSPL |
| 36 | 1 | 0 | 120 | Minimum Acoustic SPL. Values in dbSPL (Sound Pressure Level). Resolution 1dbSPL |
| 37 | 1 | 0 | 100 | Remaining Battery % |

FPort 8 will be used for events reporting. This message will be confirmed type.

| Byte Position | | Length (Bytes) | Minimum | Maximum | Data |
|---------------|---|----------------|---------|---------|---|
| 0 | 4 | | | | Timestamp. 32 bit Unix time format. This is time at which device detected event. |
| 4 | 1 | | | | Sensor type for which event is generated. <ul style="list-style-type: none"> • 1 Device Temperature • 2 Surface Temperature • 3 Pressure • 4 Humidity |

| | | |
|---|-----|--|
| | | <ul style="list-style-type: none"> • 5 Battery • 6 Vibration Acceleration X Axis • 7 Vibration Acceleration Y Axis • 8 Vibration Acceleration Z Axis • 9 Vibration Velocity X Axis • 10 Vibration Velocity Y Axis • 11 Vibration Velocity Z Axis • 12 Acoustics Sensor |
| 5 | 1 | <p>Event Type</p> <p>For Sensor types: Device Temp, Surface Temp, Pressure and Humidity</p> <ul style="list-style-type: none"> • Bit 0: Low PV • Bit 1: High PV • Bit 2: Value Increasing • Bit 3: Value decreasing • Bit 4: ROC (Rate of Change) exceeded. • Bit 5: Sensor value out of range (not part of R100) • Bit 6 to 7: Spare <p>For sensor types: Vibration and Audio</p> <ul style="list-style-type: none"> • Bit 0: Frequency Trigger Band 1 • Bit 1: Frequency Trigger Band 2 (only for vibration) • Bit 2: Frequency Trigger Band 3 (only for vibration) • Bit 3 to 7: Spare <p>For Battery type (not part of R100)</p> <ul style="list-style-type: none"> • Bit 0: Battery Voltage Low • Bit 1: Battery Life Changed • Bit 2 to 7: Spare |
| 6 | 1-5 | <p>Event Data depending on event type</p> <p>For all events except frequency trigger 1 Byte Value of sensor</p> <p>For Frequency Trigger</p> <ul style="list-style-type: none"> 1 Byte Frequency band (1, 2 or 3) 3 Bytes Frequency (Unsigned in Hz) 1 Byte Amplitude. |

| | | |
|--|--|--|
| | | <p>For Battery Low</p> <p>1 Byte battery Voltage (3 to 4 V)</p> <p>For Battery Life</p> <p>1 Byte Battery Life. Possible Values are 25, 50, 75</p> |
|--|--|--|