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| E-M-HC2-accessories_20 <small>Document code</small> | Rotronic AG Bassersdorf, Switzerland <small>Unit</small> |
| Accessories and Parts for probes, indicators and transmitters <small>Document title</small> | <div style="text-align: right;"> Instruction Manual <small>Document Type</small> </div> <hr/> <div style="text-align: right;"> Page 1 of 17 </div> |

Accessories and Parts for probes, indicators and transmitters



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1 Configuration and communication software

The ROTRONIC HW4 software (version 2.1.0 or higher) allows configuring the AirChip 3000 probes and instruments.

HW4 is compatible with Windows XP, Vista and NT4 with SP6a or higher. For more details see separate instruction manual provided with the software.

| Order Code | Description |
|--------------|---|
| HW4-E | HW4 software, Standard Edition (single user) |
| HW4-P | HW4 Professional Edition, ERES regulations compliant (FDA / GAMP), multi user |

2 Service cables for transmitters and indicators

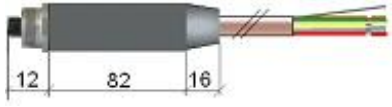
| Order Code | Description | |
|---------------|--|--|
| AC3006 | Mini-USB service connector (UART) to a PC USB port. Cable electronics convert UART interface to USB interface. Approximate length: 1.7 m |  |
| AC2001 | Mini-USB service connector (UART) to 7-pin probe connector of the HP23 hand-held calibrator or other instrument with display and keypad. Approximate length: 1.7 m |  |

Notes:

- The active electronic circuit of cable AC3006 is powered directly from the USB port (PC or hub). Both the AC3006 and AC2001 do not provide power to the transmitter or indicator and these must be powered separately.
- Prior to using cable AC3006 the ROTRONIC USB driver must be installed on the PC (available from the HW4 CD or from www.rotronic-humidity.com). For installation instructions see document **E-M-HW4v2-Main** (§ 6.3).

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3 Supply voltage adapters for the HC2 probes

| Order Code | Description | |
|-------------|---|--|
| E2-01XX-ACT | Female connector (black) with built-in voltage regulator for HC2 probes. 1 m (3.2 ft) cable with tinned ends |  <p>See: Wiring color code</p> |
| E2-02XX-ACT | Same as E2-01XX-ACT with 2m (6.5 ft) cable | |
| E2-05XX-ACT | Same as E2-01XX-ACT with 5m (16.4 ft) cable | |
| E3-01XX-ACT | Female connector (white) with built-in voltage regulator for HC2 probes. 1 m (3.2 ft) cable with tinned ends | |
| E3-02XX-ACT | Same as E3-01XX-ACT with 2m (6.5 ft) cable | |
| E3-05XX-ACT | Same as E3-01XX-ACT with 5m (16.4 ft) cable | |

| Specifications | |
|--|-------------------------|
| Supply voltage to adapter | 5...24 VDC / 5...16 VAC |
| Supply voltage to probe | 3.3 VDC |
| Current consumption (includes HC2 probe) | < 4 mA |

| Wire color | Name | Function |
|------------|------------------|---|
| Green | VDD (+) | VDC + or VAC Phase |
| Grey | GND | Power ground and digital signal ground |
| Red | RXD | UART |
| Blue | TXD | UART |
| White | Out 1 analog (+) | Humidity: 0...1 V = 0...100%RH (default) or calculated parameter |
| Brown | Out 2 analog (+) | Temperature : 0...1V = -40...60°C (default) |
| Yellow | AGND (-) | Analog signal ground |

Shielded cables with tinned ends: the shield is ended as a non-insulated wire connected to GND at the connector level


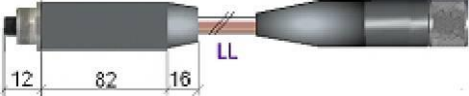
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NOTES:

- The electronic circuit of the adapter generates a small amount of heat. For this reason, do not place the adapter directly under the probe. Depending on the application, using a passive cable to separate the adapter and the HC2-S or HC2-S3 probe is recommended to prevent heat transfer from the adapter to the probe and obtain the best measurement accuracy.
- See also: Maximum temperature limit for connectors, cables and adapters

4 Extension cables for the HC2 probes

4.1 Standard passive cables

| Order Code | Description | |
|------------|---|--|
| E2-F3A | 0.3 m (1 ft) extension cable (black) HC2 to instrument with standard 7-pin female / male connectors and wall mounting bracket for the HC2-S probe |  |
| E3-F3A | Same as E2-F3A with white cable. Use with the HC2-S3 probe | |
| E2-01A | 1 m (3.2 ft) extension cable (black) HC2 to instrument with standard 7-pin female / male connectors. Barrel length 82 mm (3.2") |  |
| E3-01A | Same as E2-01A with white cable | |
| E2-02A | 2 m (6.5 ft) extension cable (black) HC2 to instrument with standard 7-pin female / male connectors | |
| E3-02A | Same as E2-02A with white cable | |
| E2-05A | 5 m (16.4 ft) extension cable (black) HC2 to instrument with standard 7-pin female / male connectors | |
| E3-05A | Same as E2-05A with white cable | |


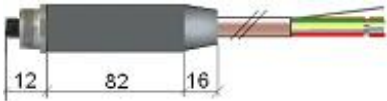
| Order Code | Description | |
|------------|---------------------------------------|--|
| E2-02AS | Same as E2-02A, but with short barrel |  |
| E3-02AS | Same as E3-02A, but with short barrel | |

NOTES:

- All white cables use PUR insulation (sunlight resistant)
- See also: Maximum temperature limit for connectors, cables and adapters

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4.2 Passive cables and connectors for OEM applications

| Order Code | Description | |
|------------|--|---|
| E2-XX | Female connector for panel mount with 7 wires (0.3 m / 1ft), tinned ends |  <p>See: Wiring color code</p> |
| E2-01XX | Female connector (black), 1 m (3.2 ft) cable with tinned ends |  <p>See: Wiring color code</p> |
| E2-02XX | Same as E2-01XX with 2m (6.5 ft) cable | |
| E2-05XX | Same as E2-01XX with 5m (16.4 ft) cable | |
| E3-01XX | Female connector (white), 1 m (3.2 ft) cable with tinned ends | |
| E3-02XX | Same as E3-01XX with 2m (6.5 ft) cable | |
| E3-05XX | Same as E2-01XX with 5m (16.4 ft) cable | |

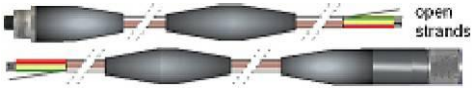

See also: Maximum temperature limit for connectors, cables and adapters

| Wire color | Name | Function |
|------------|------------------|---|
| Green | VDD (+) | 3.2 to 5 VDC |
| Grey | GND | Power and digital signal |
| Red | RXD | UART |
| Blue | TXD | UART |
| White | Out 1 analog (+) | Humidity 0...100%RH (default) or calculated parameter |
| Brown | Out 2 analog (+) | Temperature -40...60°C (default) |
| Yellow | AGND (-) | Analog signal ground |

Shielded cables with tinned ends: the shield is ended as a non-insulated wire connected to GND at the connector level

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4.3 Cables with digital signal booster

| Order Code | Description | |
|------------|--|---|
| AC3003 | <p>Active digital signal booster set</p> <p>Allows connecting a HC2 probe to a transmitter over a distance of up to 100 m (330 ft). The probe analog signals are not transmitted by the AC3003.</p> <p>Open strands with tinned ends designed for connection via two customer supplied terminal boxes. The strands are to be wired in parallel, e.g. 1:1</p> <p>Use a shielded cable with twisted pairs to connect the two terminal boxes.</p> |  |
| AC3003-L | <p>Same as AC3003, but with long barrel on probe side.</p> |  |

Probe side

Transmitter side



max. 100 m / 330 ft

| Wire color | Description |
|------------|-------------------|
| White | RS485_N_Tx |
| Blue | RS485_P_Tx |
| Brown | RS485_N_Rx |
| Red | RS485_P_Rx |
| Green | VDD (+) / 3.3 VDC |
| Gray | GND |

NOTE:

- See also: Maximum temperature limit for connectors, cables and adapters


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5 Digital interface adapters for the HC2 probes

NOTE:

- Supply voltage to the probe: 3.3 VDC \pm 0.1 VDC
- See also: Maximum temperature limit for connectors, cables and adapters


5.1 USB adapter

| Order Code | Description | |
|------------|--|--|
| AC3001 | UART to USB adapter cable Connects HC2 probe to PC running HW4 Power is provided by USB port |  |


IMPORTANT:

- Prior to using cable AC3001, the ROTRONIC USB driver must be installed on the PC. Both the driver and the installation instructions (document **E-M-HW4v2-Main**) are located on the HW4 CD.

5.2 RS-232 adapter

| Order Code | Description | |
|------------|---|--|
| AC3002 | UART to RS232 adapter cable Connects HC2 probe to PC running HW4 Requires AC adapter mod. AC1207 (9VDC) |  |

5.3 Ethernet adapter

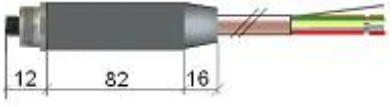
| Order Code | Description | |
|------------|---|---|
| AC3005 | UART to Ethernet (TCP/IP) adapter Connects HC2 probes to Ethernet network Power supply options: AC adapter mod. AC1207 (9VDC) or PoE (IEEE 802.3af compliant) |  |

IMPORTANT:

- Prior to using cable AC3005, the TCP/IP settings of the cable must be configured by the user to be compatible with the local area network. Detailed instructions are provided separately in documents **E-M-HW4v2-Main** and **E-M-TCPIP-Conf**. Devices with an Ethernet interface are shipped with a Device Configuration Certificate that provides information about the factory configuration settings.

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5.4 RS-485 and Modbus adapters

| Order Code | Description | |
|-------------|---|--|
| E2-01XX-MOD | Female connector (black) for HC2 probes with 1 m (3.2 ft) cable (4 wires with tinned ends): Powers the HC2 probe and allows connecting the probe to either a RS-485 network or a Modbus network, depending on the communication protocol used by the probe See note below |  |
| E2-02XX-MOD | Same as E2-01XX-MOD with 2m (6.5 ft) cable | |
| E2-05XX-MOD | Same as E2-01XX-MOD with 5m (16.4 ft) cable | |

| Specifications | |
|--|--|
| Supply voltage to adapter | 5.0...28 VDC |
| Supply voltage to probe | 3.3 VDC |
| Current consumption (includes HC2 probe) | 10 mA typical |
| RS-485 specifications | Baud rate : 19200 Parity : none Data bits : 8 Stop bits : 1 |

| Wire color | Name | Function |
|------------|---------|----------------------------------|
| Green | VDD (+) | Power supply + |
| Grey | GND | Power and digital signal |
| Red | RXD | RS-485 bi-directional TX+ / RX + |
| Blue | TXD | RS-485 bi-directional TX- / RX - |

NOTE: The electronic circuit of the adapter generates a small amount of heat. For this reason, do not place the adapter directly under the probe. Depending on the application, using a passive cable to separate the adapter and the HC2-S or HC2-S3 probe is recommended to prevent heat transfer from the adapter to the probe and obtain the best measurement accuracy.

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Networking notes:

- A Modbus network and a RS-485 network are physically identical but cannot be mixed due to the difference between the communication protocols.
- The internal configuration of the HC2 probe determines which communication protocol (RO-ASCII or Modbus) will be used by the combination of probe and adapter. RO-ASCII is the factory default communication protocol for the HC2 probe and is automatically used whenever the probe is interrogated by the HW4 software.

The protocol used by the probe when not communicating with HW4 can be changed between RO-ASCII and Modbus with the HW4 software > Device Manager. After interrogating or configuring the probe with HW4, cycle power to the probe to enable the selected protocol.

- When connecting the probe to a RS-485 network be sure that the probe is configured to use the RO-ASCII protocol.
- RS-485 Compatibility: the RO-ASCII protocol is not compatible with the protocol used by the previous generation of ROTRONIC products. Do not connect legacy products and the adapter / HC2 probe combination to the same RS-485 multi-drop network.
- Within a RS-485 network, the combination of HC2 probe and adapter is always seen as a slave. The RS-485 address is that of the HC2 probe. The factory default is address 0. The master is another ROTRONIC device with an interface combination such as RS-485 and USB or RS-485 and TCP/IP.

Please note that each device connected to a RS-485 network, including the master device, must have a unique address. As long as the factory default address of the HC2 probe (0) has not been changed, the HW4 software will automatically change the address of the probe to the next available address at the time that the probe is added as a slave to a RS-485 network monitored by HW4.

The RS-485 address of the HC2 probe can also be changed manually with the HW4 software Device Manager.

- Each adapter can be powered either by an individual voltage source or centrally powered from the network with a single voltage source. In the case of a network that both provides power and transmits data, a shielded cable with two twisted pairs is required for the main bus.
- User to supply all necessary connecting hardware such as T-connection box, terminal box, etc.
- Prior to using the adapter, we strongly recommend consulting the following documents:
E-M-HW4v2-Main, E-M-HW4v2-F2-001 and E-M-AC3000-CP

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6 USB / RS-485 converter cable

Use with:

- HF45
- HF53 with digital option
- HF55
- HF65
- XA probe series

| Order Code | Description |
|---------------|---|
| AC3010 | <p>Allows connecting a probe or instrument with a RS-485 port to the USB port of a PC.</p> <p>The AC3010 converter cable is powered directly from the USB port and does not require an additional power supply.</p> <p>Within the RS-485 network, the probe or instrument behaves as a slave.</p> |



IMPORTANT: Prior to using cable AC3010, the ROTRONIC USB driver must be installed on the PC (available from the HW4 CD or from www.rotronic-humidity.com). For installation instructions see document **E-M-HW4v2-Main** (§ 6.3).

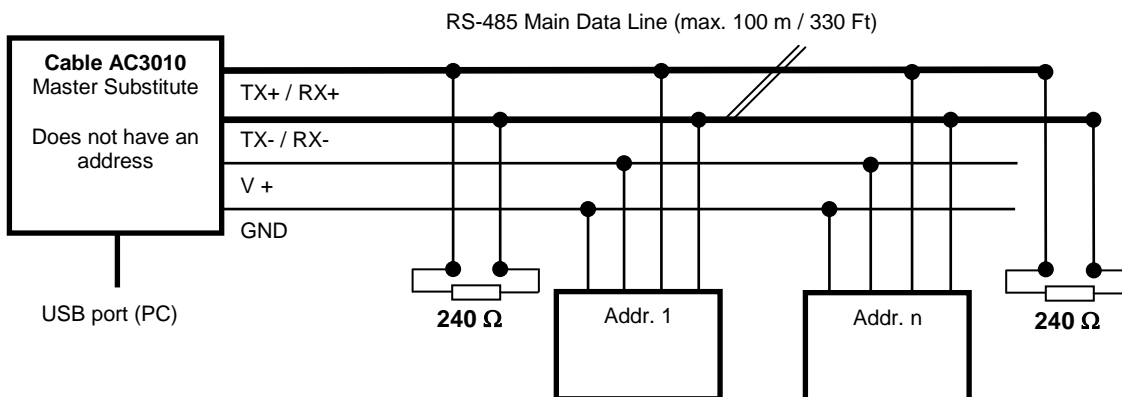
| Wire color | Function |
|----------------|----------------------------------|
| Red | TX+ / RX+ (RS-485 bidirectional) |
| Blue | TX- / RX- (RS-485 bidirectional) |
| Green | V+ (optional connection) |
| Drain (shield) | GND (optional connection) |

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6.1 AC3010 networking options

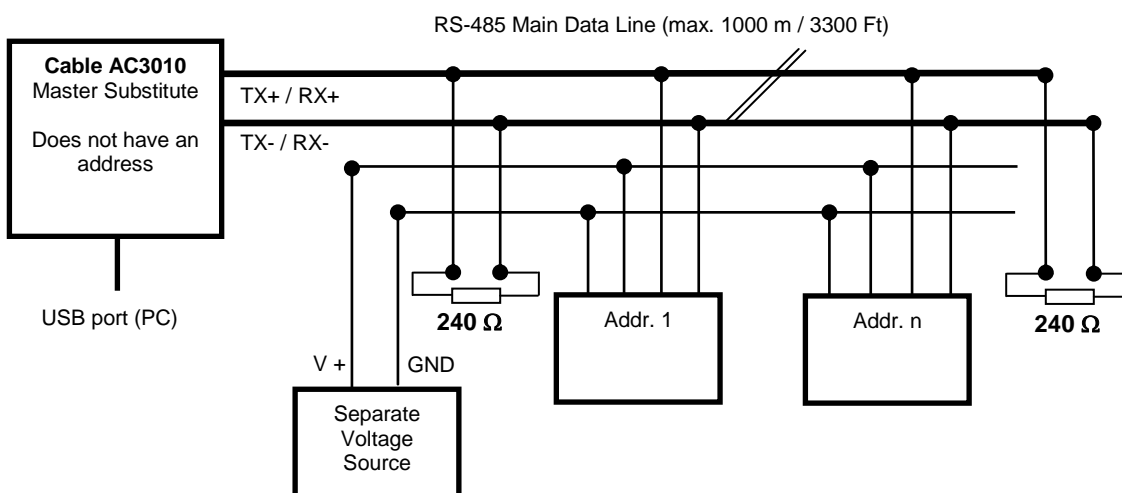
Option 1: networked devices powered from the USB port

Cable AC3010 has two wires (V+ and GND) that can be used to power the networked devices directly from the USB port (5 VDC, 100 mA). In that case, the length of the main data line should be limited to 100 m / 330 Ft.



Option 2: networked devices powered separately

When the networked devices are not powered from the USB port, the length of the main data line can be up to 1000 m / 3300 Ft.



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6.2 AC3010 network design and installation


Please follow the instructions provided in document **E-DV04-RS485.01**

- Limit the RS-485 network to a single main data line (one segment)
- Terminate each end of the main data line with a 240 Ohm resistor. Termination resistors should be placed only at the extreme ends of the data line, and no more than two terminations should be placed in any single segment of an RS-485 network
- The total length the T connections should be included in the limit set for the main data line (100 m or 1000 m)
- Do not connect more than 64 devices to the same main data line
- Each device connected to the RS-485 network should be given a unique address (1 to 64)

7 Mounting hardware

7.1 Mounting hardware for through-wall probe installation

| Order Code | Description | |
|---------------|--|---|
| AC5005 | Mounting flange with compression fitting for (15 mm / 0.6" diameter probe). Use for though wall installation of the HF4 type D Maximum temperature 100 °C (212°F) |  |
| AC5001 | Sleeve for adapting a 15 mm / 0.6" diameter probe to a 25 mm / 1.0 " diameter through-wall mounting hole (HF42 and HF43 type D, vertical mounting position) Facilitates the replacement of older products with a 25 mm probe diameter |  |


| Order Code | Description | |
|------------|--|--|
| AC1303-M | Compression fitting for 15 mm (1.0") diameter probes. Maximum temperature 200 °C (392°F) |  |
| AC1304-M | Compression fitting for 25 mm (0.6") diameter probes. Maximum temperature 200 °C (392°F) | |
| AC1305 | Flange for AC1303-M – nickel coated steel Diameter: 80 mm (3.1") | |
| AC1306 | Flange for AC1304-M – nickel coated steel Diameter: 80 mm (3.1") | |

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7.2 Mounting hardware for transmitter enclosure

Use with:

- HF4
- HF5
- HF6

| Order Code | Description | |
|---------------|---|---|
| AC5002 | DIN-rail mounting kit consisting of 2 clamps that attach to the back of the enclosure with the screws provided. DIN-rail (35 mm / 1 3/8") not included |  |

8 Calibration accessories



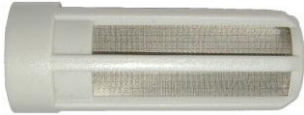
| Order Code | Description |
|------------|---|
| EA00-SCS | 0.5 %RH humidity std, SCS cert., pack of 5 |
| EA05-SCS | 5 %RH humidity std, SCS cert., pack of 5 |
| EA10-SCS | 10 %RH humidity std, SCS cert., pack of 5 |
| EA20-SCS | 20 %RH humidity std, SCS cert., pack of 5 |
| EA35-SCS | 35 %RH humidity std, SCS cert., pack of 5 |
| EA50-SCS | 50 %RH humidity std, SCS cert., pack of 5 |
| EA65-SCS | 65 %RH humidity std, SCS cert., pack of 5 |
| EA80-SCS | 80 %RH humidity std, SCS cert., pack of 5 |
| EA95-SCS | 95 %RH humidity std, SCS cert., pack of 5 |
| ER-15 | Calibration device for 15mm diameter probes |
| ER-05 | Calibration device for 5mm diameter probes |
| EM-G | Calibration device for type 'IE' probes |


For instructions regarding the ROTRONIC humidity standards and calibration devices see document **E-M-CalBasics**.


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9 Dust filters

9.1 Spare filters






| Order Code | Use with | Slotted cap | Filter insert | |
|-------------------|--|-------------------------|---------------|--|
| NSP-PCB-PE | HC2-S HF4 HF6 wall mount HP21 | Polycarbonate, black | Polyethylene |  |
| NSP-PCB-WM | | | Wire mesh | |
| NSP-PCB-TF | | | Teflon | |
| NSP-PCW-PE | HC2-S3 | Polycarbonate, white | Polyethylene |  |
| NSP-PCW-WM | | | Wire mesh | |
| NSP-PCW-TF | | | Teflon | |
| NSP-PCG-PE | HF3 | Polycarbonate, grey | Polyethylene |  |
| NSP-PCG-WM | | | Wire mesh | |
| NSP-PCG-TF | | | Teflon | |

| Order Code | Use with | Filter Material | |
|---------------|----------------------|-----------------|---|
| ET-Z10 | HC2-HP28 HC2-HP50 | Sintered steel |  |

| Order Code | Use with | Description | |
|---------------|----------|---------------|---|
| SP-T05 | H2C-C05 | Teflon filter |  |

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9.2 Dust filter parts

| Order Code | Use with | Description | |
|-----------------|--|--|---|
| NSP-ME | HC2-HK HC2-HP HC2-IC HF6 duct / cable | Filter base Nickel plated brass HC2 thread Filter Cartridge not included |  |
| SP-MSB15 | HC2-IM HC2-IE HF7 | Filter base Nickel plated brass HC1 thread Filter Cartridge not included |  |
| SP-M15 | NSP-ME SP-MSB15 | Wire mesh filter cartridge Use with NSP-ME or SP-MSB15 |  |
| SP-S15 | NSP-ME SP-MSB15 | Sintered steel filter cartridge Use with NSP-ME or SP-MSB15 |  |
| SP-T15 | NSP-ME SP-MSB15 | Teflon filter cartridge Use with NSP-ME or SP-MSB15 |  |

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10 Maximum temperature limit for connectors, cables and adapters

- Cables and wiring: 70°C (158°F)
- All probe side connectors: 100 °C (212 °F)
- All other connectors (USB, mini-USB, D-Sub 9 or RJ45: 70°C (158°F)

NOTES:

- Probe side connectors have a maximum temperature limit of 100 °C so as to permit full immersion of the HC2-S probe into a hot environment. However the cable itself should not be subjected to temperature higher than 70 °C.
- Operating temperature limits of all electronic circuits used for cables and adapters: -40...85 °C (-40...185 °F)

11 Document releases

| Doc. Release | Date | Notes |
|--------------|--------------|------------------|
| _20 | Apr.11, 2009 | Original release |