CoriolisMaster FCX400
Coriolis mass flowmeter
Notification of change according to NAMUR NE53

Type of device
- Field device / signal processing device

Manufacturer:
ABB Automation Products GmbH, Measurement & Analytics, Dransfelder Str. 2, 37079 Göttingen, Deutschland

Device type:
CoriolisMaster FCX400

Previous firmware version:
Firmware 00.04.00 dated 11.2016

Previous device code (order code):
FCB430, FCB450, FCH430, FCH450, FCT430, FCT450

Comments:
New Firmware

New firmware version:
Firmware 00.05.00 dated 02.2018

New device code (order code):
Unchanged

Description:
- Additional Communication protocols with plug in card:
  - Modbus RTU
  - PROFIBUS DP
- Change of HART variables PV, SV, TV, QV via device menu.
- New procedure for device password reset.
- The user set password now locks the device access even with universal service password.
- Introduction of current output diagnostics via output readback. Individual setting of alarm signaling possible.
- New drag indicators for key device and process values:
  - Massflow (min and max)
  - Density (min and max)
  - Driver Current (max)
  - Sensor amplitude Sa (min)
  - Sensor amplitude Sb (min)
  - Temperature measurement of:
    - Process fluid (min and max)
    - Sensor housing (min and max)
    - Electronics front-end board (min and max)
- The device display is now „hot-pluggable“ and can be changed during operation.
- Display indication can be rotated by 180°.
- The VeriMass min calibration time has been reduced to 0.001 days.
- The max damping time has been increased from 60 to 300s (1tau).
- Field optimization: a special operation mode can be selected: Either „automatic“, „liquid“ or „gas“. The standard setting is automatic. In case of significant slug flow or temporary multiphase conditions and manual setting is recommended.
- Minor bug fixes
### Compatibility

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes/No</th>
</tr>
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<tbody>
<tr>
<td>Is compatibility given after installation of the new firmware / hardware?</td>
<td>✔</td>
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<tr>
<td>Firmware or software replacement necessary?</td>
<td>✔</td>
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</tbody>
</table>

**Comments:**

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### Supporting documentation

<table>
<thead>
<tr>
<th>Question</th>
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<tbody>
<tr>
<td>Is an Update of the instruction manual necessary?</td>
<td>✔</td>
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</table>

**Comments:**

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### Price

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes/No</th>
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<tr>
<td>Change in price of device in comparison with previous version?</td>
<td>✔</td>
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</tbody>
</table>

**Comments:**

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