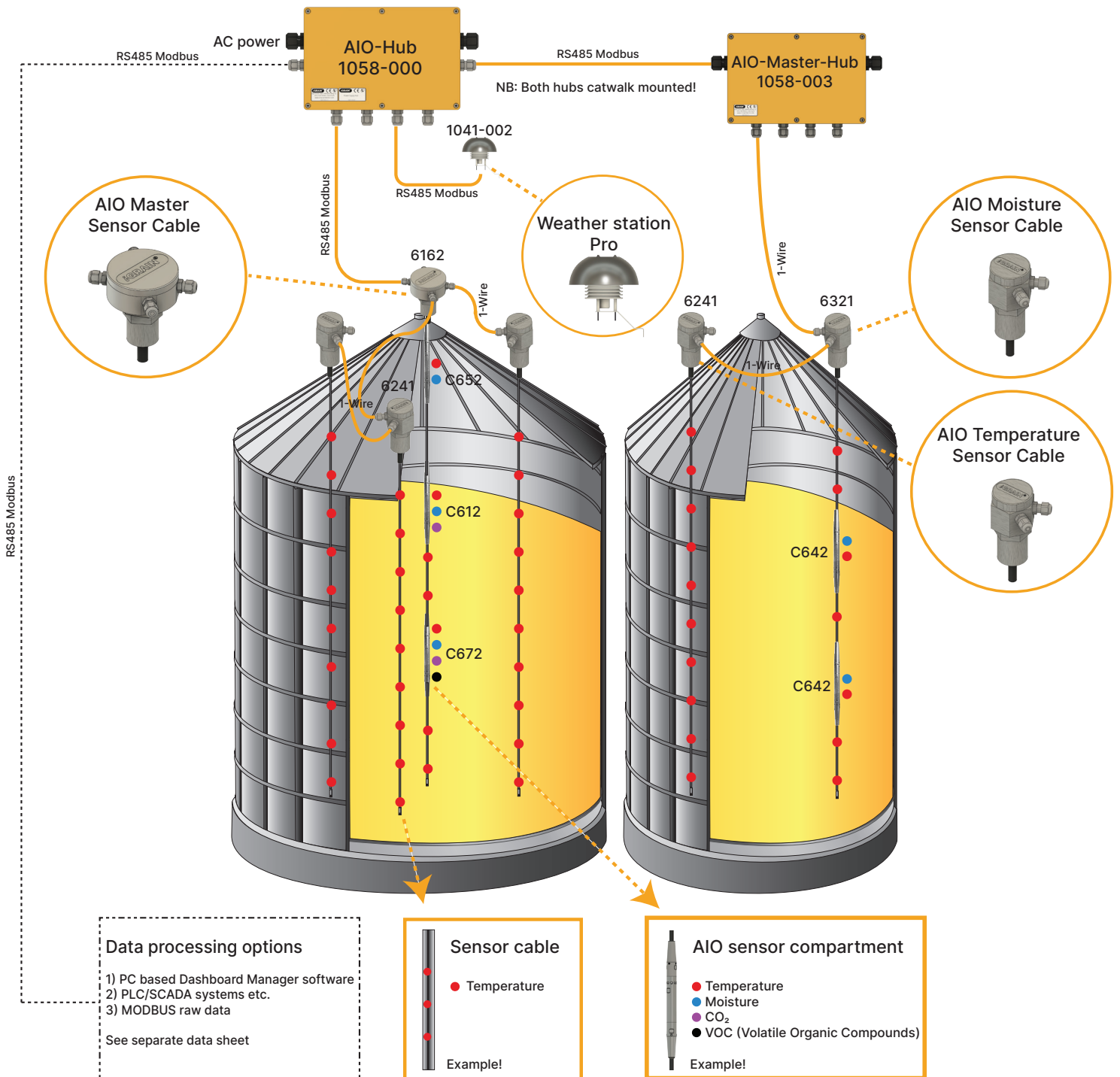
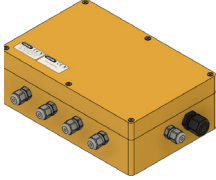
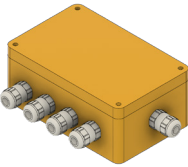


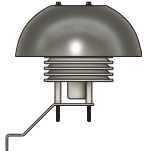

## All-In-One (AIO) system component overview

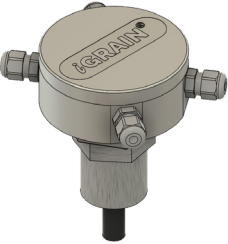
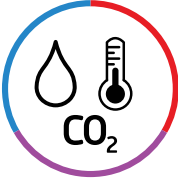




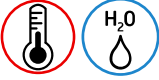

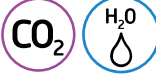


### How to put iGRAIN AIO-systems together

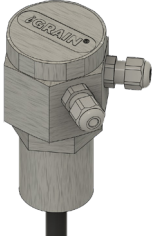


This overview illustrates how an iGRAIN AIO system may be put together. It further shows all the system components with names and item numbers. There are many ways to put an AIO system together - see two silo examples below. The overview can also help understand the different items in quotations.

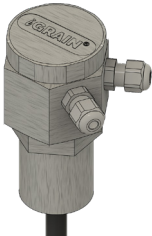









| Item no.                                                                                                                            | AIO connection boxes                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p data-bbox="84 152 236 185"><b>1058-000</b></p>   | <p data-bbox="355 152 943 185"><b>iGRAIN AIO-Hub 100-240 VAC - Modbus</b></p> <ul data-bbox="355 224 1077 320" style="list-style-type: none"> <li>• Modbus signal repeater and 24V, 50W power supply</li> <li>• For AIO systems.</li> <li>• Ports: 4</li> </ul>                                                                                                                                                                                                                                 |
| <p data-bbox="84 454 236 488"><b>1058-003</b></p>  | <p data-bbox="355 454 1074 488"><b>iGRAIN AIO-Master-Hub Modbus - 4 port - RS485</b></p> <ul data-bbox="355 521 1508 712" style="list-style-type: none"> <li>• Input power from AIO HUB</li> <li>• Communication: Modbus-RS485, Modbus ID: 1-64</li> <li>• Can be connected directly to a PC</li> <li>• Can be daisy chained to other iGRAIN AIO-Master-Hub Modbus – RS485 and to iGRAIN AIO Master Sensor Cable – RS485</li> <li>• Connects to: iGRAIN AIO-Hub 100-240 VAC - Modbus</li> </ul> |

| Item no.                                                                                                                             | AIO weather station                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p data-bbox="84 864 236 898"><b>1041-002</b></p>  | <p data-bbox="355 864 959 898"><b>iGRAIN Weather station PRO for AIO system</b></p> <p data-bbox="355 931 419 965">24 V</p>  |

| Item no.                                                                                                                               | AIO cable configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>6162-xxx*</p>                                       | <p><b>iGRAIN AIO Master Sensor Cable – RS485</b></p> <p>Sensor options:</p> <ul style="list-style-type: none"> <li>• Temperature</li> <li>• Moisture</li> <li>• Head space humidity</li> <li>• CO<sub>2</sub></li> <li>• AIO+ sensor (volatile gasses)</li> </ul> <p>Cable: CAT6<br/> Input power from iGRAIN AIO-Hub 100-240 VAC - Modbus<br/> Communication: Modbus-RS485, Modbus ID: 1-64<br/> Can be connected directly to a PC<br/> Can be daisy chained to other iGRAIN AIO Master Sensor Cable – RS485<br/> Conduit diameter: 13mm only</p>  |
| <p>C2200-xx<br/>C2300-xx<br/>C2600-xx</p> <p>Sensor in cable</p>                                                                       | <p><b>Temperature sensors</b></p> <p>NB: C2200-xx: xx indicates number of temperature sensors<br/> NB: C2200-xx: 22 represents 2 m spacing between sensors<br/> NB: C2300-xx: 23 represents 3 m spacing between sensors<br/> NB: C2600-xx: 26 represents 6 feet spacing between sensors</p>                                                                                                                                                                                                                                                         |
| <p>C642-yyy*</p>                                       | <p><b>AIO Moisture Sensor</b></p> <p>Can be placed at any position at the 2 m distance point</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>C652-005<br/>C652-zzz*</p>                        | <p><b>AIO Headspace Humidity Sensor</b></p> <p>Measuring: Temperature and moisture</p> <p>Head space humidity sensor is always placed 50 cm below the cable head</p>                                                                                                                                                                                                                                                                                                                                                                              |
| <p>C612-yyy*</p>                                     | <p><b>AIO CO<sub>2</sub> and moisture sensor</b></p> <p>Measuring: CO<sub>2</sub> and moisture<br/> Can be placed at any position at the 2 m distance point</p>                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>C672-yyy*</p>                                     | <p><b>AIO+ sensor</b></p> <p>Measuring: CO<sub>2</sub>, moisture, and VOC (Volatile Organic Compounds)<br/> Can be placed at any position at the 2 m distance point</p>                                                                                                                                                                                                                                                                                                                                                                           |
| <p>xxx* indicates sensor cable length (m)<br/> yyy* indicates placement from bottom (m)<br/> zzz* indicates placement from top (m)</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Item no.                                                                                                                                         | Simple AIO cable configuration - temperature only                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6221-xxx* 13 mm<br>6241-xxx* 10.8 mm<br>                        | <b>iGRAIN AIO Temperature Sensor Cable – 1-Wire</b><br>Sensor options: Temperature<br><br>Cable: CAT6<br>Input power from AIO Master Sensor Cable: 485 (5V)<br>Communication: 1-Wire<br>Can be daisy chained to iGRAIN AIO Master Sensor Cable, RS485 and/or to other iGRAIN AIO Temperature Sensor Cable, 1-Wire; iGRAIN AIO Moisture Sensor Cable, 1-Wire<br>Conduit diameter: 13mm or 10.8 mm<br>Cable lengths: 13 mm: Min. 30 m; 10,8 mm: Max. 30 m |  |
| C2200-xx<br>C2300-xx<br>C2600-xx<br>Sensor in cable                                                                                              | <b>Temperature sensors</b><br><br><i>NB: xx indicates number of temperature sensors</i><br><i>NB: 22 represents 2 m spacing between sensors, 23 represents 3 m spacing between sensors</i><br><i>NB: 26 represents 6 feet spacing between sensors</i>                                                                                                                                                                                                   |  |
| <i>xxx* indicates sensor cable length (m)</i><br><i>yyy* indicates placement from bottom (m)</i><br><i>zzz* indicates placement from top (m)</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |

| Item no.                                                                                                                                         | Simple AIO cable configuration - temperature and moisture only                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6321-xxx*<br>                                                  | <b>iGRAIN AIO Moisture Sensor Cable – 1-Wire</b><br>Sensor options: Temperature, moisture, head space humidity<br><br>Input power from iGRAIN AIO Master Sensor Cable – RS485<br>Communication: 1-Wire<br>Can be daisy chained to iGRAIN AIO Master Sensor Cable, RS485 and/or to other iGRAIN AIO Temperature Sensor Cable, 1-Wire; iGRAIN AIO Moisture Sensor Cable, 1-Wire<br>Conduit diameter: 13mm only |   |
| C2200-xx<br>C2300-xx<br>C2600-xx<br>Sensor in cable                                                                                              | <b>Temperature sensors</b><br><br><i>NB: xx indicates number of temperature sensors</i><br><i>NB: 22 represents 2 m spacing between sensors, 23 represents 3 m spacing between sensors</i><br><i>NB: 26 represents 6 feet spacing between sensor</i>                                                                                                                                                         |                                                                                    |
| C642-yyy*<br>                                                  | <b>AIO Moisture Sensor</b><br><br>Can be placed at any position at the 2 m distance point                                                                                                                                                                                                                                                                                                                    |                                                                                    |
| C652-005<br>C652-zzz*<br>                                      | <b>AIO Headspace Humidity Sensor</b><br><br>Measuring: Temperature and moisture<br>Head space humidity sensor is always placed 50 cm below the cable head                                                                                                                                                                                                                                                    |                                                                                    |
| <i>xxx* indicates sensor cable length (m)</i><br><i>yyy* indicates placement from bottom (m)</i><br><i>zzz* indicates placement from top (m)</i> |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |