Esders LTE REST

the easiest way to get your measurement data

REST example:

If you need an example how to build your PHP REST, take a look at:

https://github.com/EsdersGmbH/esders-lte-rest

It is free to use and works with our LTE Application.

Just configure the user and password an tell us your URL, where we can send the data.

Your own REST:

If you want to receive the measurement data, here are our interface descriptions.

What we need:

1. An URL to which we publish the data.
2. A User and Password, for a Basic Authentication (Base64)

What you get:

We post our data as a 'multipart/form-data' content.

We support xml and pdf file format. You can get one or both of them. So you get an array of files objects. If you want to use a different file format than send us a request.

Every object has a:

1. FileName : Autoincremented Number
2. ContentType : „application/xml" or „application/pdf"
3. Charset: UTF8
4. FileStream
5. Filename: XML_[DATETIME] or PDF_[DATETIME]

Error handling:

If we get a response code unequal to 201. We start a new attempt to post the data the next day.

You can also give us an email address, where we can send failure Information.

XML example:

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<measurment>
  <device>
    <serialno value="150/01197"/>
    <dev value="Druktest max"/>
    <manufactory value="Esders GmbH"/>
  </device>
  <header>
    <time_start value="2019-10-23T08:16:53.000+02:00"/>
    <menu_name value="MENU_NL_G22"/>
  </header>
  <results>
    <phase0>
      <P0_MEAS_RESULT_REF_PRESSURE value="30" unit="mbar"/>
      <P0_MEAS_RESULT_TEST_MEDIUM value="Luft"/>
      <P0_MEAS_RESULT_PIPE_MATERIALs value="Kunststoff"/>
      <P0_MEAS_RESULT_PRESS_NKS value="0"/>
      <P0_MEAS_RESULT_PRESS_RESOLUTION value="1" unit="mbar"/>
      <P0_MEAS_RESULT_SERVICE_DATE value="44126,4971759259"/>
      <P0_MEAS_RESULT_SENSOR_RANGE_MAX value="1000"/>
    </phase0>
    <MEAS_PHASE_PRESSURE_RISE>
      <P1_MEAS_RESULT_PRESS_TEST value="1000" unit="mbar"/>
      <P1_MEAS_RESULT_PRESS_START value="5" unit="mbar"/>
      <P1_MEAS_RESULT_PRESS_END value="1086" unit="mbar"/>
      <P1_MEAS_RESULT_RUNTIME value="285314" unit="ms"/>
      <P1_MEAS_RESULT_TEMPERATURE_START value="23,5289058685303" unit="°C"/>
      <P1_MEAS_RESULT_TEMPERATURE_END value="23,6984367370605" unit="°C"/>
    </MEAS_PHASE_PRESSURE_RISE>
    <MEAS_PHASE_PRESSURE_LOADTEST>
      <P2_MEAS_RESULT_PRESS_ALLOWED_DROP value="118,373992919922" unit="mbar"/>
      <P2_MEAS_RESULT_RATING value="Prüfung bestanden"/>
      <P2_MEAS_RESULT_PRESS_TEST value="1000" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_START value="1086" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_END value="1080" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_DROP value="6" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_DIFF_MIN_MAX value="6" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_MIN value="1080" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_MAX value="1086" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_AVG value="1080,36791992188" unit="mbar"/>
      <P2_MEAS_RESULT_PRESS_MIN_TIME value="23.10.2019 08:30:58"/>
      <P2_MEAS_RESULT_PRESS_MAX_TIME value="23.10.2019 08:21:38"/>
      <P2_MEAS_RESULT_RUNTIME value="1800046" unit="ms"/>
      <P2_MEAS_RESULT_RUNTIME_TARGET value="1800000" unit="ms"/>
      <P2_MEAS_RESULT_TEMPERATURE_START value="23,6984367370605" unit="°C"/>
      <P2_MEAS_RESULT_TEMPERATURE_END value="24,1552734375" unit="°C"/>
    </MEAS_PHASE_PRESSURE_LOADTEST>
    <result>
      <P3_MEAS_RESULT_RATING value="Prüfung bestanden"/>
    </result>
  </results>
</measurment>
```

PDF example:

Opleverrapport: MENU_NL_G22
Sterktebeproeving

Esders

Opleverrapport lage druk leidingen

Algemene gegevens:
Projectnummer:
Postcode en huisnr.:
Naam monteur:
Naam aannemer:

Technische gegevens:

Manometertype:	digitaal	Registrerend instrumentnummer:	150/01197
Datalogger-type en merk:	Esders Druktest max	Datum volgend onderhoud:	22.10.2020

Beproevingsinstellingen:
Materiaal: Kunststoff
Bedrijfsdruk: 30 mbar
Beproevingsdruk: 1000 mbar
Toegelaten drukdaling: 124 mbar

Beproevingsresultaten:

Algemeen		Datum	Tijdstip	Beproevingsdruk
Sterktebeproeving	Begin	23.10.2019	09:51:37	1137 mbar
	Eind	23.10.2019	10:21:37	1035 mbar
	Drukdaling		00:30:00	102 mbar

Conclusie: Prüfung bestanden

Namens de aannemer
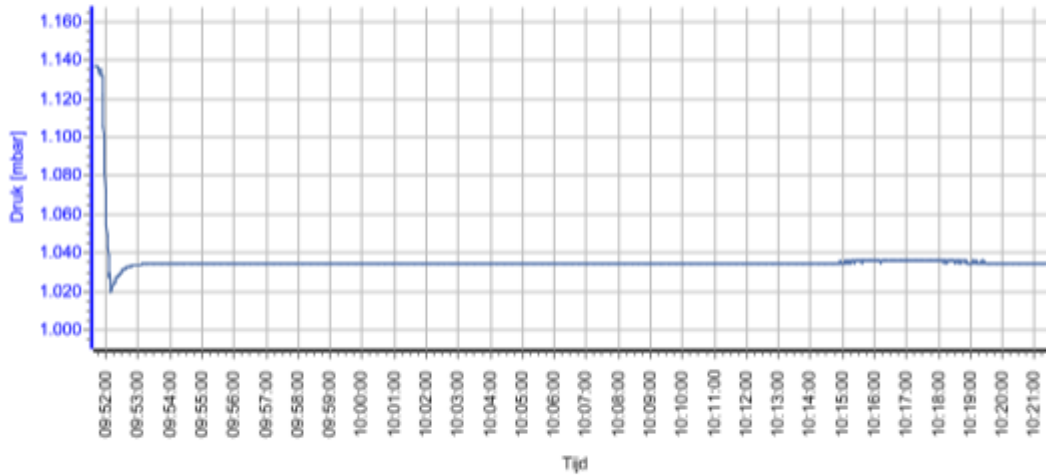
Naam monteur:
Datum: 23.10.2019

Handtekening: _____

Opleverrapport: MENU_NL_G22
Sterktebeproeving

Datum: 23.10.2019, 09:25:34   Registrerend instrumentnummer: 150/01197

Sterktebeproeving:

Startdruk sterktebeproeving	1137 mbar
Einddruk sterktebeproeving	1035 mbar
Drukdaling	102 mbar