

History of the research of Prof. Koch in the field of oil condition sensors	
1998	<ul style="list-style-type: none"> <li>- Since 1998 Prof. Dr.-Ing. Dr. h.c. Alexander Walter Koch heads the Chair of the Institute for Measurement Systems and Sensor Technology (MST) at the Technische Universität München (TUM).</li> </ul>
2000	<ul style="list-style-type: none"> <li>- MST starts research in the field of infrared spectroscopy for oil condition sensors.</li> </ul>
2000 – 2009	<ul style="list-style-type: none"> <li>- Katarzyna Kudlaty and Peter Endisch conduct their PhD research in the field of infrared spectroscopy for oil condition sensors.</li> </ul>
2009 – 2012	<ul style="list-style-type: none"> <li>- Joint research project "Design of a Miniaturized Infrared Sensor for Online Oil Lubricant Condition Monitoring (MIRÖS)" funded by the Bavarian State Ministry for Economic Affairs, Infrastructure, Transport and Technology (StMWIVT) within the program "Microsystems Technology Bavaria".</li> <li>- Benjamin R. Wiesent conducts his PhD research in the field of infrared spectroscopy for oil condition analysis.</li> </ul>
2012	<ul style="list-style-type: none"> <li>- On Nov. 16, 2012 the Spectrolytic GmbH was founded by Mr. Benjamin R. Wiesent to cooperate with the company Comline Elektronik Elektrotechnik GmbH in carrying out the commercial development of the IR oil condition sensor originated under the MIRÖS project.</li> </ul>
2013 – 2014	<ul style="list-style-type: none"> <li>- The company Comline Elektronik Elektrotechnik GmbH develops together with Dr.-Ing. Benjamin R. Wiesent the commercial products oil condition sensor and oil condition measurement device using the laboratory prototypes of MST: MIR transmission spectrometer (MIR: mid infrared) and MIR ATR spectrometer (ATR: attenuated total reflection).</li> </ul>
2014 – 2016	<ul style="list-style-type: none"> <li>- Further development of IR spectroscopy in the production process in the research project "Design of a Fibre-coupled Stationary Fourier-transform Infrared Spectrometer for Online Measurement of Mid-infrared Spectra in Production Processes" funded by the Federal Ministry of Economy and Energy (BMWi) in the program "Central Innovation Program for SMEs (ZIM)" in cooperation with Comline Elektronik Elektrotechnik GmbH.</li> <li>- Michael Schardt conducts his PhD research.</li> </ul>
2015 – 2018	<ul style="list-style-type: none"> <li>- Further development of IR spectroscopy in the research project "Development of a Miniaturized Non-dispersive Infrared Sensor for Online Oil Condition Monitoring", funded by the Federal Ministry of Economy and Energy (BMWi) in the program "Central Innovation Program for SMEs (ZIM)" in cooperation with Comline Elektronik Elektrotechnik GmbH.</li> <li>- Markus Rauscher conducts his PhD research.</li> </ul>

2017 – 2021	<ul style="list-style-type: none"><li>- Project "Development of a broadband stationary Fourier-transform infrared spectrometer for the near and middle infrared range with high measuring rates" funded by the Federal Ministry of Economy and Energy (BMWi) due to a decision of the German Federal Parliament in the program "Central Innovation Program for SMEs (ZIM)" in cooperation with Comline Elektronik Elektrotechnik GmbH.</li><li>- Michael Köhler conducts his PhD research.</li></ul>
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Status of February 2019