

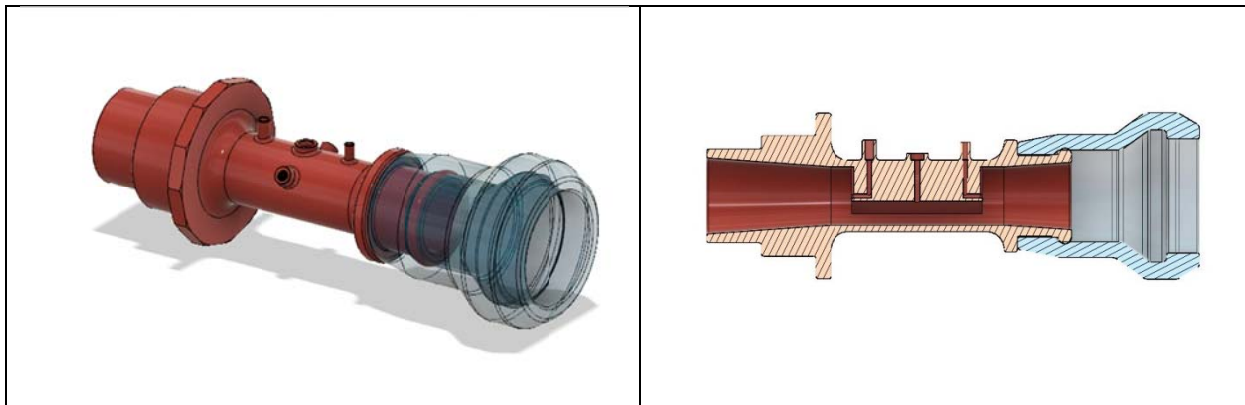
Horse_lite 3D for Datex Capnomac / S5 monitors

©Vetmeduni Vienna, all rights reserved Email: johannes.schramel@vetmeduni.ac.at

Abstract

The sensor is intended to provide spirometry for horses. It is a pitot tube based sensor like the D-Lite sensor. The latter is intended for human adult use, has 15mm diameter and hence can not be used for horses. The sensor can be easily inserted between the ETT and the Y- piece of the circle system.

Pictures:



Description:

File: H_Lite3D.stl

Technology: SLS, SLA. It is important to have a smooth surface. The technology should work without support structures

Material: PA2200 etc. see www.rapidobject.com or others. Surface sealing is recommended.

Instructions: see Instruction Horselite 3D V1_0.docx

References:

MOENS YPS, GOOTJES P, LAGERWEIJ E. 1994. An introduction to side stream spirometry in the horse. Proceedings of the 5th International Congress of Veterinary Anaesthesia, Guelph, Canada, pp. 137.

MOENS YPS, GOOTJES P, IONITA JC, HEINONEN E, SCHATZMANN U. 2009. In vitro validation of a Pitot-based flow meter for the measurement of respiratory volume and flow in large animal anaesthesia. Veterinary Anaesthesia and Analgesia, 36: 209 219.

MOENS YPS. 2010. Clinical Application of continuous spirometry with a pitot-based flow meter during equine anaesthesia. Equine Veterinary Education, 22: 354 360.

PICHLBAUER B. 2019. Validierung des Spirometrie-Sensors Horse-Lite 3D. Diplomarbeit Vetmeduni Vienna.