

Medical Humidifier

Shradha Laxman Kangude¹, Tejal Anil Pawar², Prathmesh Ashok Shinde³,

Manthan Kamlesh Waghmare⁴, Aarti Rai⁵

Department of Electronics and Telecommunication^{1,2,3,4,5}

JSPM's RSCOE Polytechnic, Tathawade, Pune

Abstract: *The DL-2605 Medical Humidifier is an advanced respiratory support device designed to deliver precisely humidified oxygen for enhanced patient safety and comfort. It incorporates three patient categories, adult, pediatric, and neonatal, with dedicated clinical condition settings to accurately control temperature and humidification levels. The system supports three different oxygen delivery methods, allowing use across various treatment needs. A key feature of the device is its integrated overheating protection function, which ensures safe operation and prevents thermal damage during therapy.*

Keywords: Condensation, ATmega168, Respiratory

