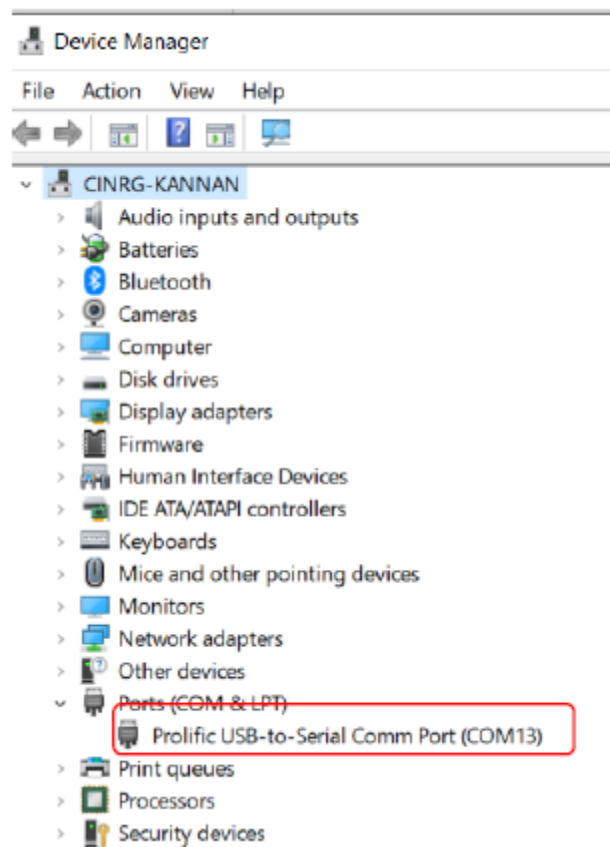


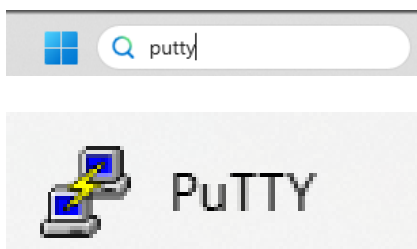
Background

This is a guide for connecting and communicating with the Baumer sensor for configuration and/or trouble-shooting.

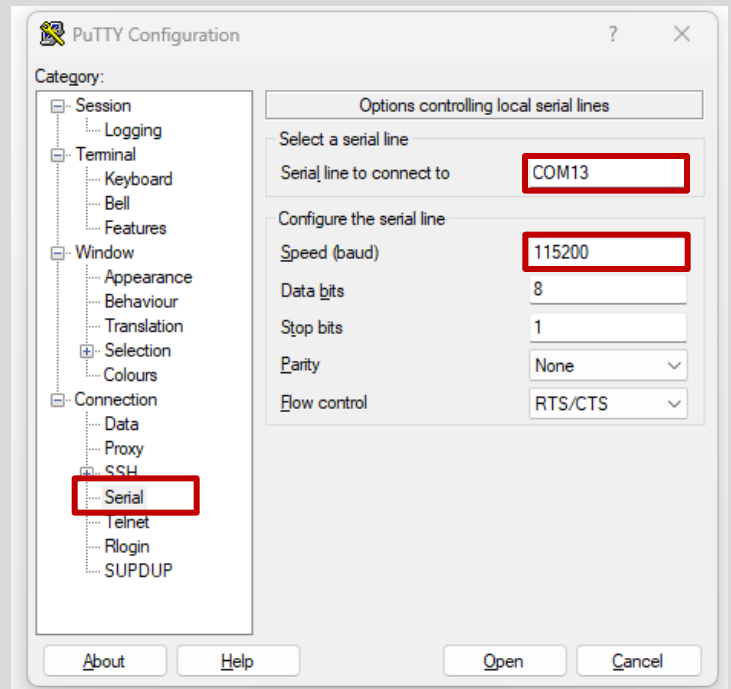
Open **Device Manager**, expand "Ports" and determine which COM port the Baumer sensor is attached.



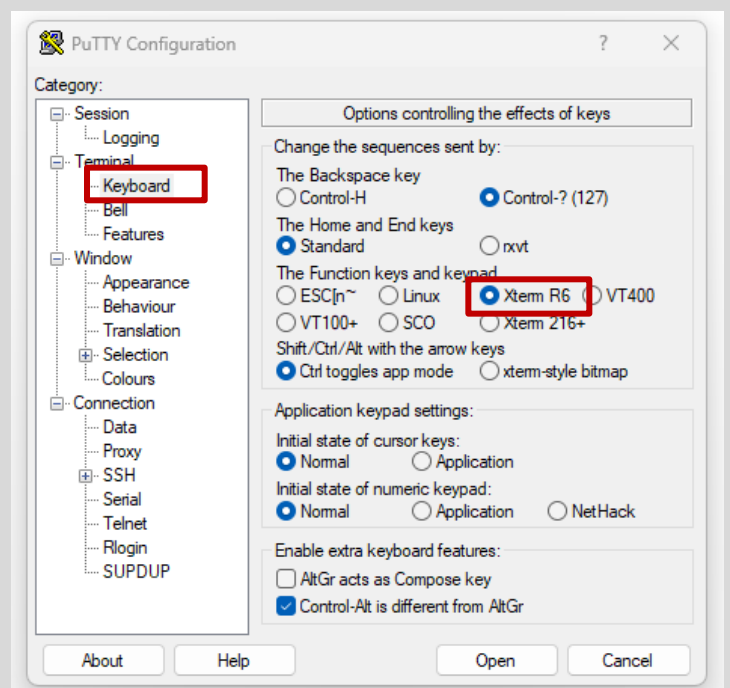
Type **Putty** in the Windows Search and click on the Putty app icon.



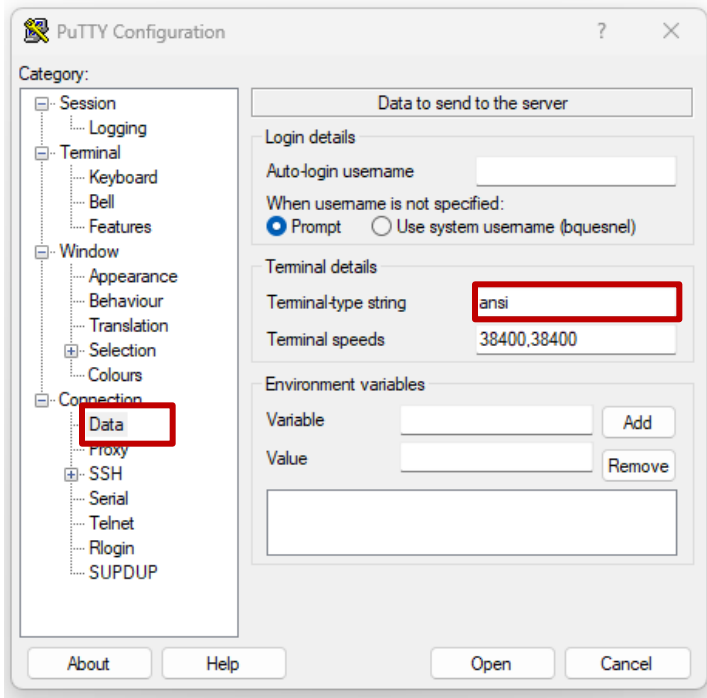
Under **Serial** set the COM port to match what's in the device manager and set the speed to 115200



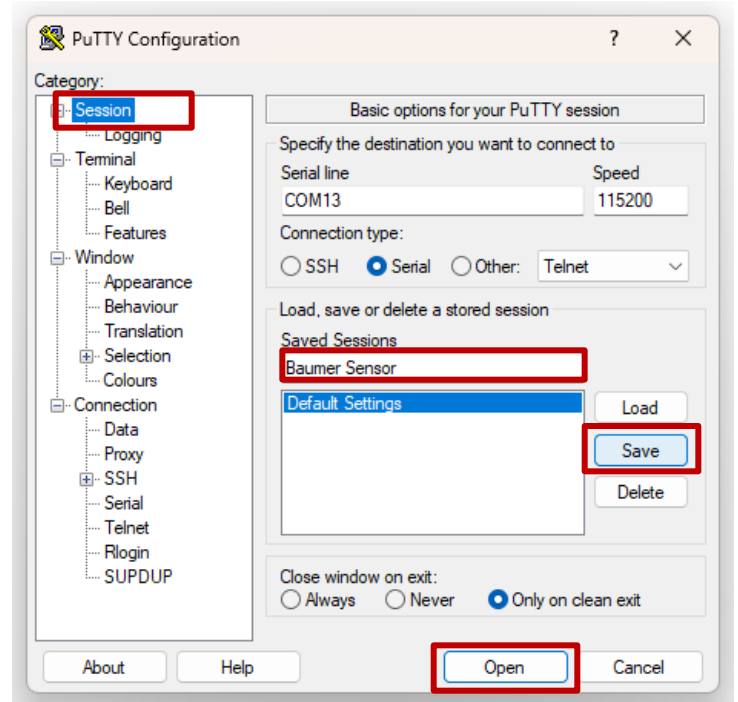
Under **Keyboard** set "The function keys and keypad" to Xterm R6.



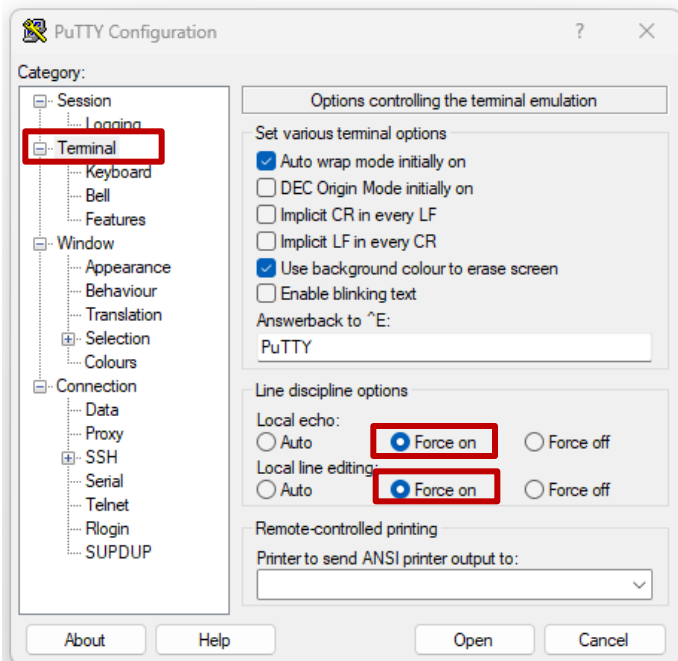
Under **Data** set “Terminal-type string” to ansi.



Under **Session** type in a “Saved Sessions” name (e.g. Baumer Sensor) and click the Save button. Then click the Open button to start a session.



Under **Terminal** set both “Local echo” and “Local line editing” to Force on.



The session window appears. Type in the appropriate Baumer command (i.e. {0M}) and hit enter. The response will appear next to the command. For a full list of Baumer sensor commands see Table 1 on the next page.

typed **command**

returned **response**

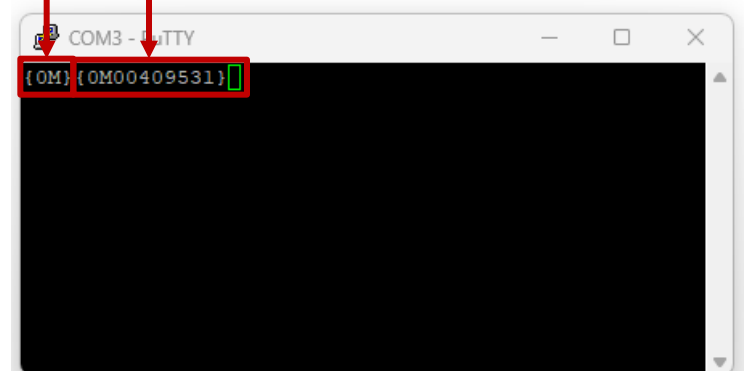


Table 1 – Baumer sensor command list

	Measuring					
	Single measurement	M	{0M}	{0MXYxxxxB}	XYxxxx	
{OM}						X=1 →Object within sensing range X=0 →Object not within sensing rg. Y=1 →Echo width big Y=0 →Echo width small xxxx Measured value in sensor units (0...4095) or in 0.1mm steps <i>See chapter „Commands explained in detail“</i>
{OAA}	Set measuring mode	A	{0AX}	{0AXB}	X	A: absolute measurement in 0.1mm steps B: relative measurement within the Teach-range 0...4096 <i>See chapter „Commands explained in detail“</i>
{OFA}	Set output format of permanent periodical data output	F	{0FX}	{0FXB}	X	A: ASCII B: Binary <i>See chapter „Commands explained in detail“</i>
{OBA}	Set sensor sensitivity (Sensors with beam columnator)	B	{0BX}	{0BXB}	X	A: Highest sensitivity Measuring into test tubes Measuring range: 3...150 mm B: Second highest sensitivity Measuring into plates size 96 with big hole diameter Measuring range: 3...110 mm C: Second lowest sensitivity Measuring into plates size 96 with small hole diameter Measuring range: 3...70 mm D: Lowest sensitivity Measuring into plates size 384 Measuring range 3...30 mm <i>See chapter „Commands explained in detail“</i>
{OCG}	Set number of averagings	C	{0CX}	{0CXB}	X	A: not averaged B: 2 C: 4 D: 8 E: 16 F: 32 G: 64 <i>See chapter „Commands explained in detail“</i>
{OG1]}	Temperature compensation on, off	G	{0Gx}	{0GxB}	x	0: Temperature compensation off 1: Temperature compensation on <i>See chapter „Commands explained in detail“</i>