

Department of Electronic & Telecommunication Engineering

University of Moratuwa

EN3270 – Internet of Things Systems Engineering



Course Project-Task 1

Virtual Sensor Environment

Name	Index
H.A.N.H.Kumarasinghe	180337M
S.Nirhoshan	180428T
H.T.G.K.S.R.Bandara	180063T

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EN3270 – Internet of Things Systems Engineering.**

Sensor Information

Sensor type	Units
Gas sensor	-
Smoke sensor	-
IR sensor	-
Door Lock sensor	-
Temperature Sensor	°C
Humidity sensor	RH
Motion sensor	-
Power Consumption	kW

Legend of topics

Sensor ID	Sensor Name/Type	Publishing range (if defined)	Publishing Interval	Any other Remarks
gas01	Gas Sensor (bit sensor)	0/1	random	Sensor to detect whether gas leakage in kitchen area
smk01	Smoke sensor (bit sensor)	0/1	random	Sensor to detect a fire
ir01	IR sensor (bit sensor)	0/1	random	Sensor to detect some come towards the door
dr_lck01	Door Lock sensor (bit sensor)	0/1	random	Sensor to detect one of the doors is open
dr_lck02	Door Lock sensor (bit sensor)	0/1	random	Sensor to detect one of the doors is open

temp01	Temperature Sensor (periodic sensor)	15-45 °C	20S	Sensor to measure temperature in living room
hum01	Humidity sensor (periodic sensor)	0-100 RH	30S	Sensor to measure humidity in living room
mtn01	Motion sensor (bit sensor)	0/1	random	Sensor to detect movements towards the house
mtn02	Motion sensor (bit sensor)	0/1	random	Sensor to detect movements towards the house
pwr01	Power Consumption (periodic sensor)	60-6000 kW	20S	Sensor to measure power consumption in home