

SAE POLYTECH

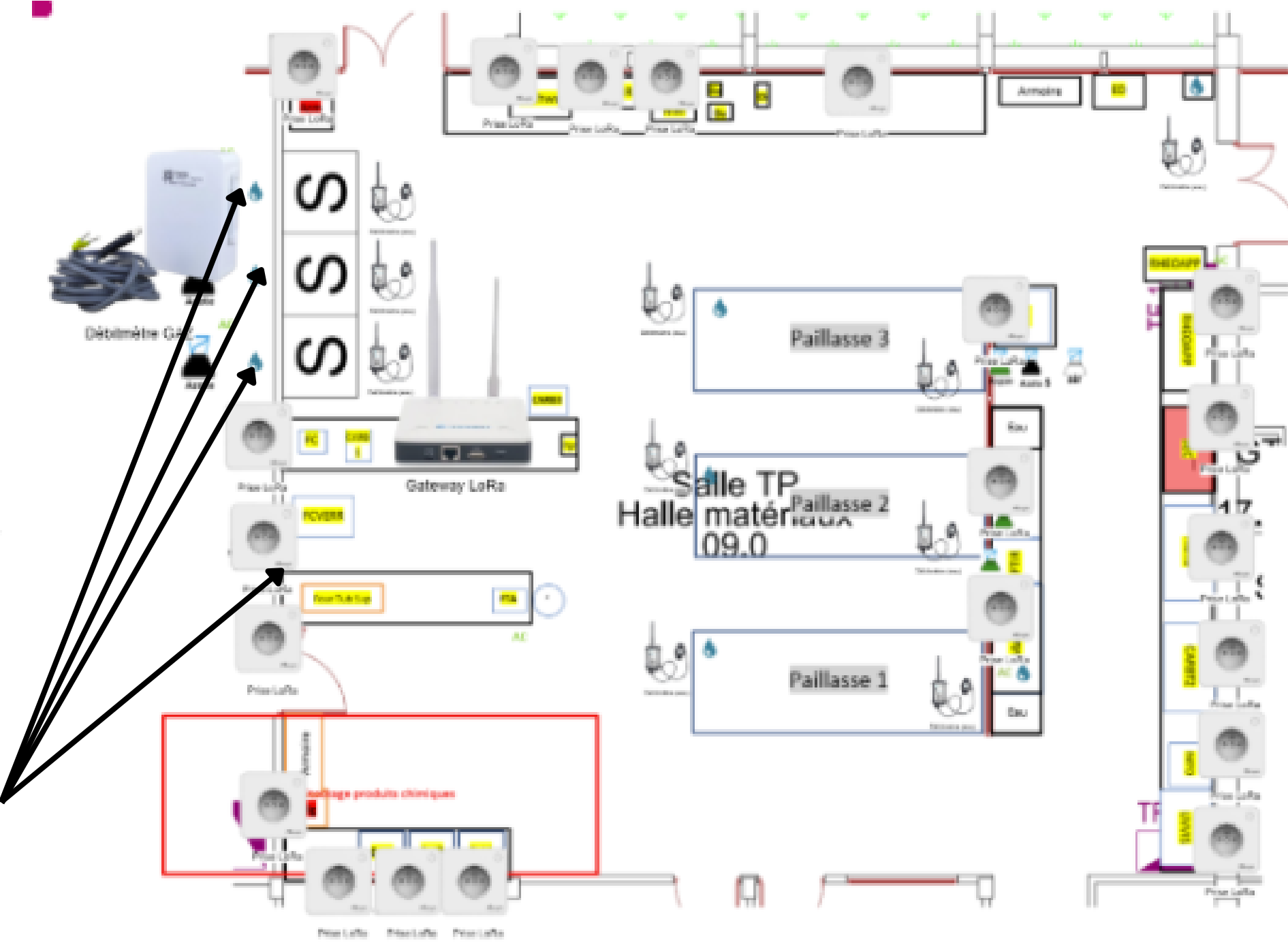
MESURE DES FLUX DANS UNE
PLATEFORME TECHNOLOGIQUE
PÉDAGOGIQUE

Capteur de débit alternative1:

DN15 capteur
débit



ARF8230ARA
Compteurs
d'impulsion



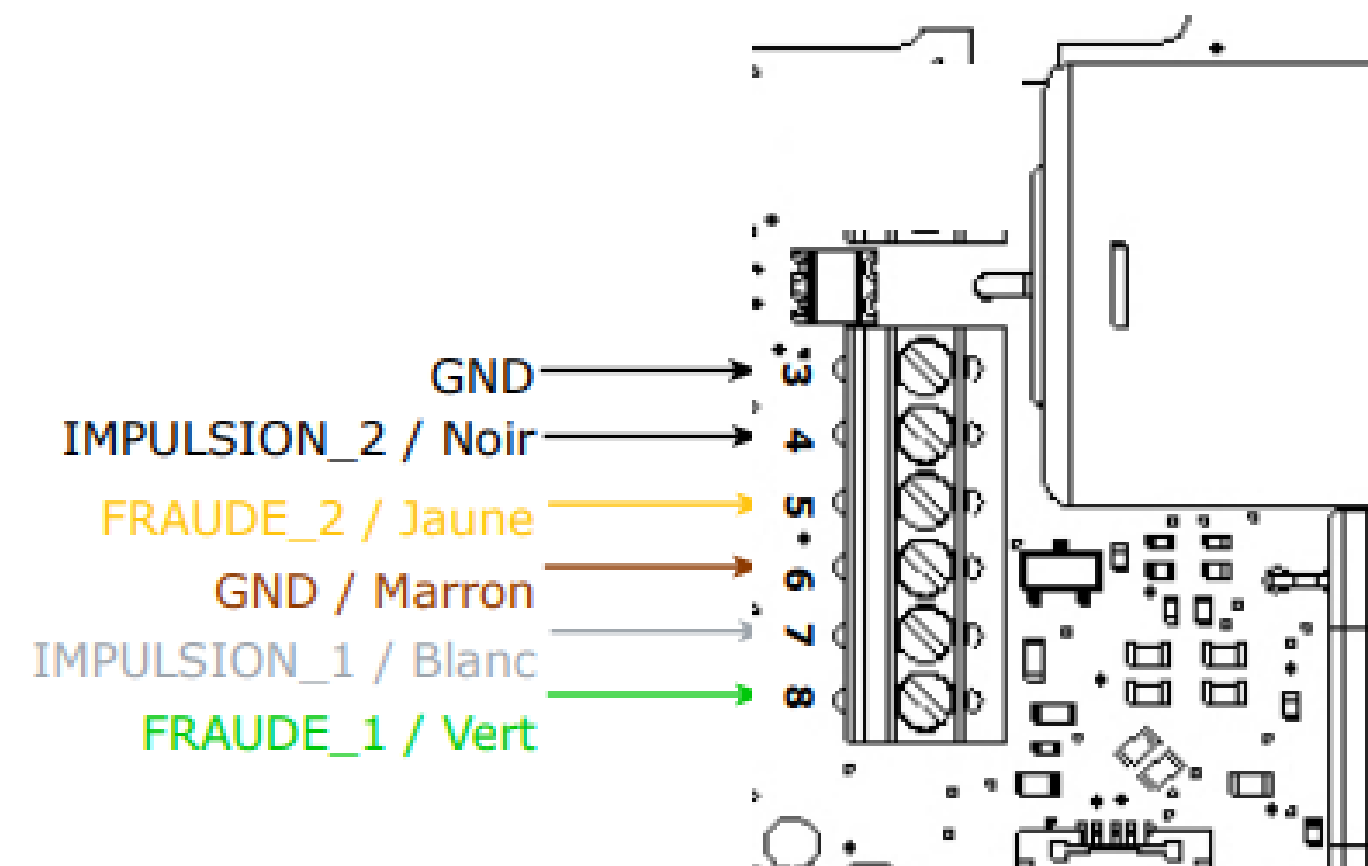

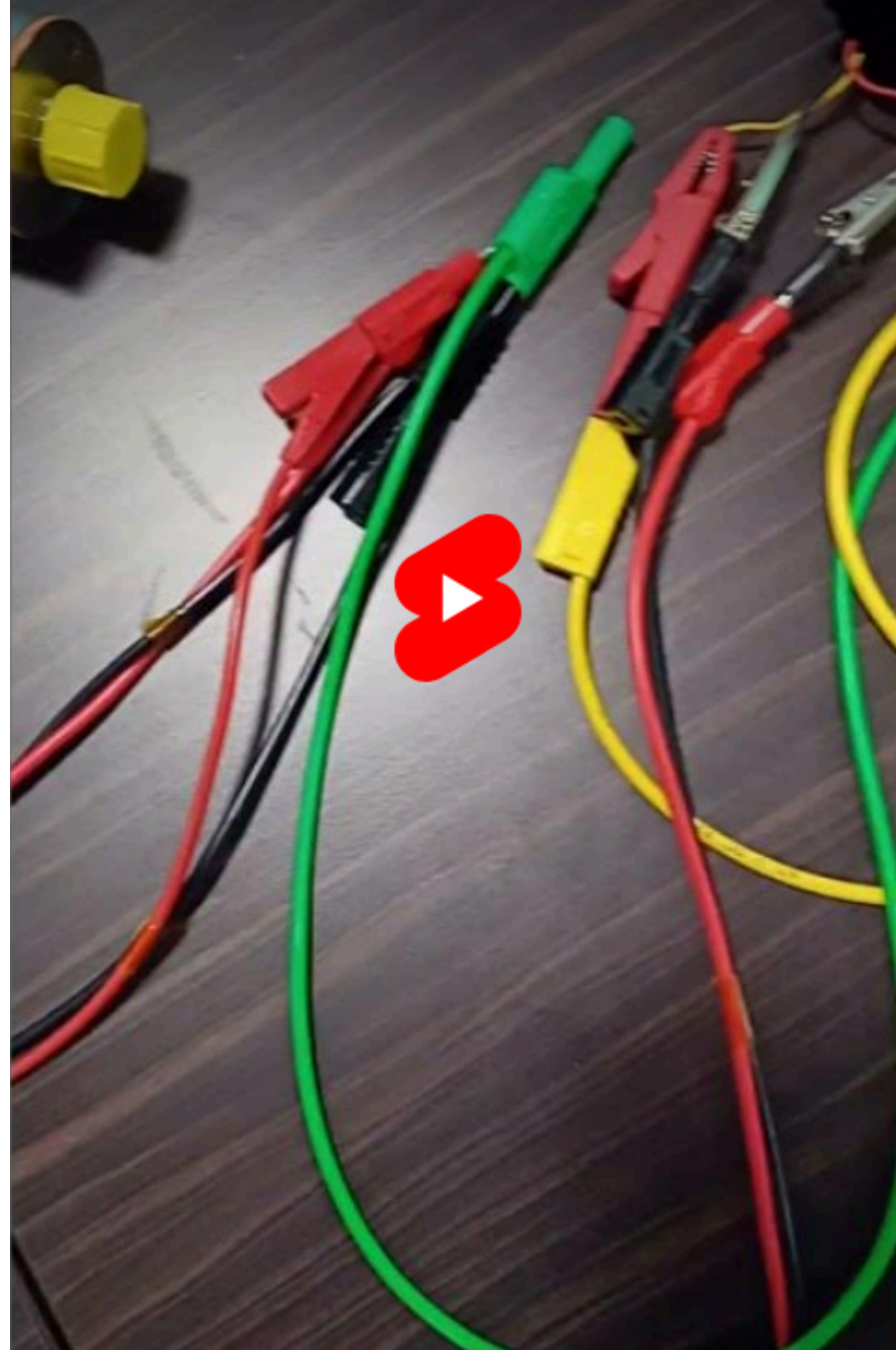


Schéma des pins du capteur de pulsation



21 mars 2025

 S-sea2



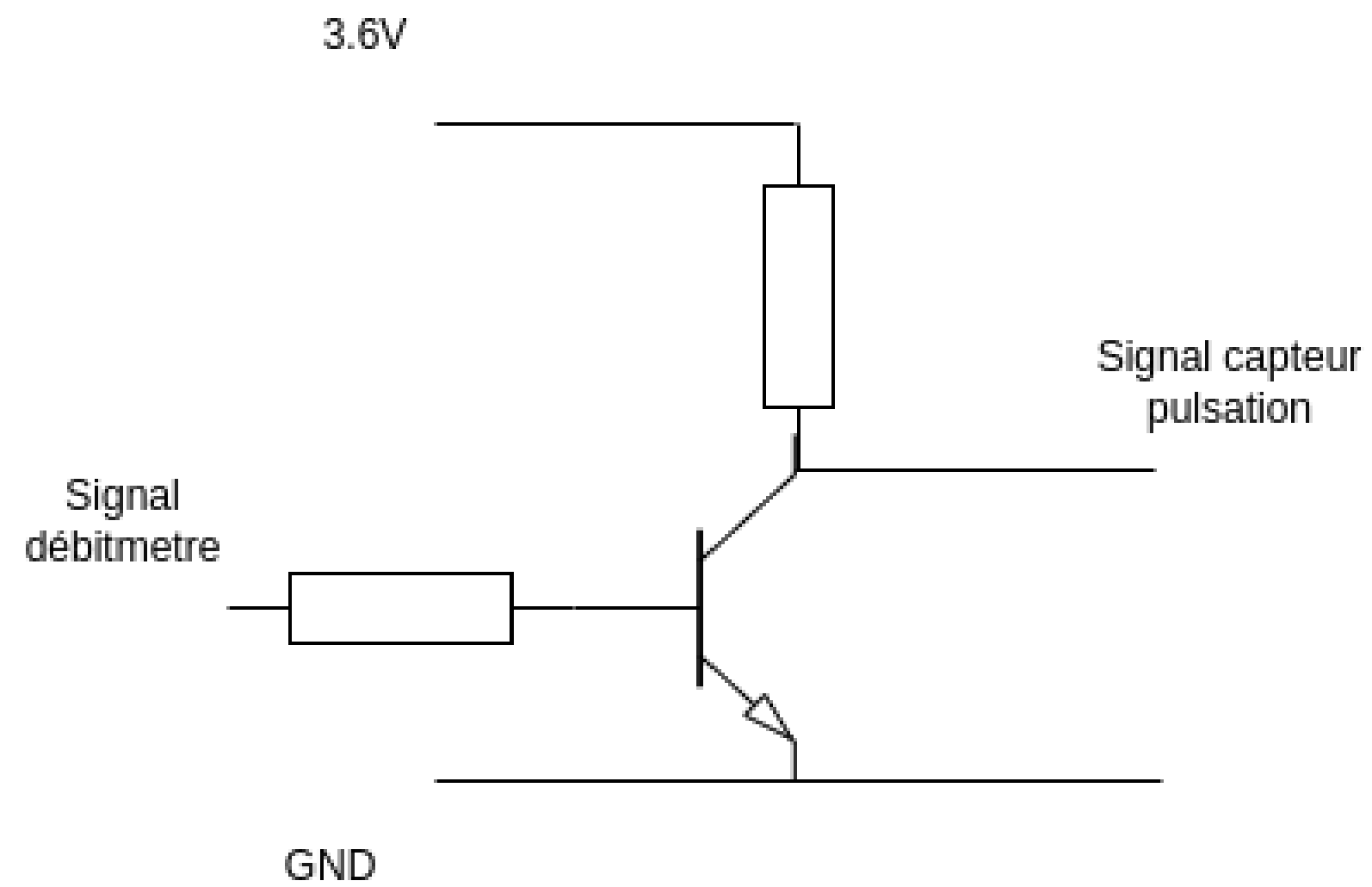
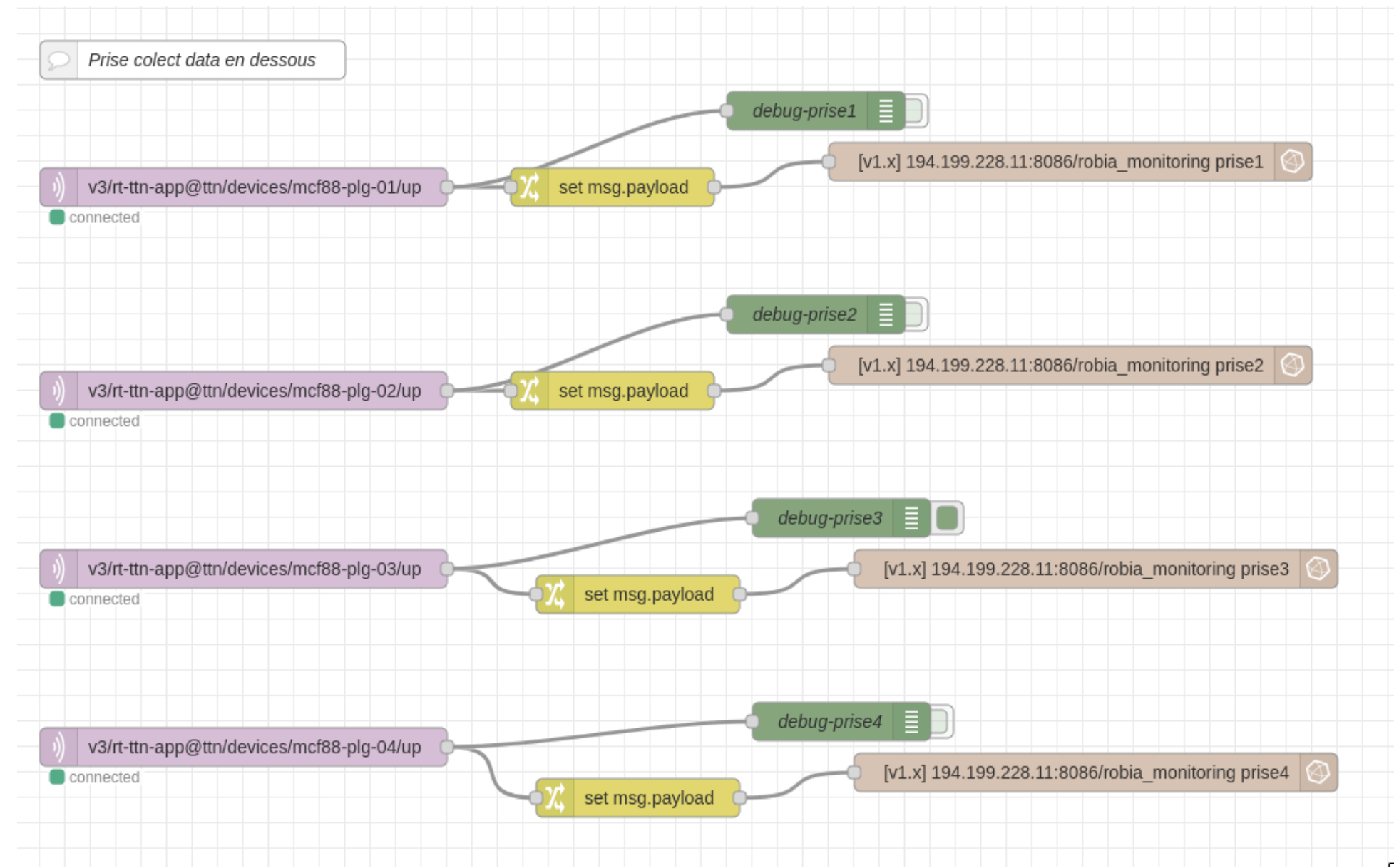


Schéma pour commuté le signal du débitmètre



Screen node pour envoyé les données a la BDD

```

// Decode Base64 to a Buffer
let buffer = Buffer.from(base64String, 'base64');

// Convert Buffer to a Binary String
let binaryString = [...buffer].map(byte => byte.toString(2).padStart(8, '0')).join(' ');

if (binaryString.split(" ")[0]=="01000110"){
// Extract the last 4 bytes
if (buffer.length >= 4) {
    let lastFourBytes = buffer.slice(-4); // Get last 4 bytes
    let intValue = lastFourBytes.readUInt32BE(0); // Convert to integer (Big Endian)

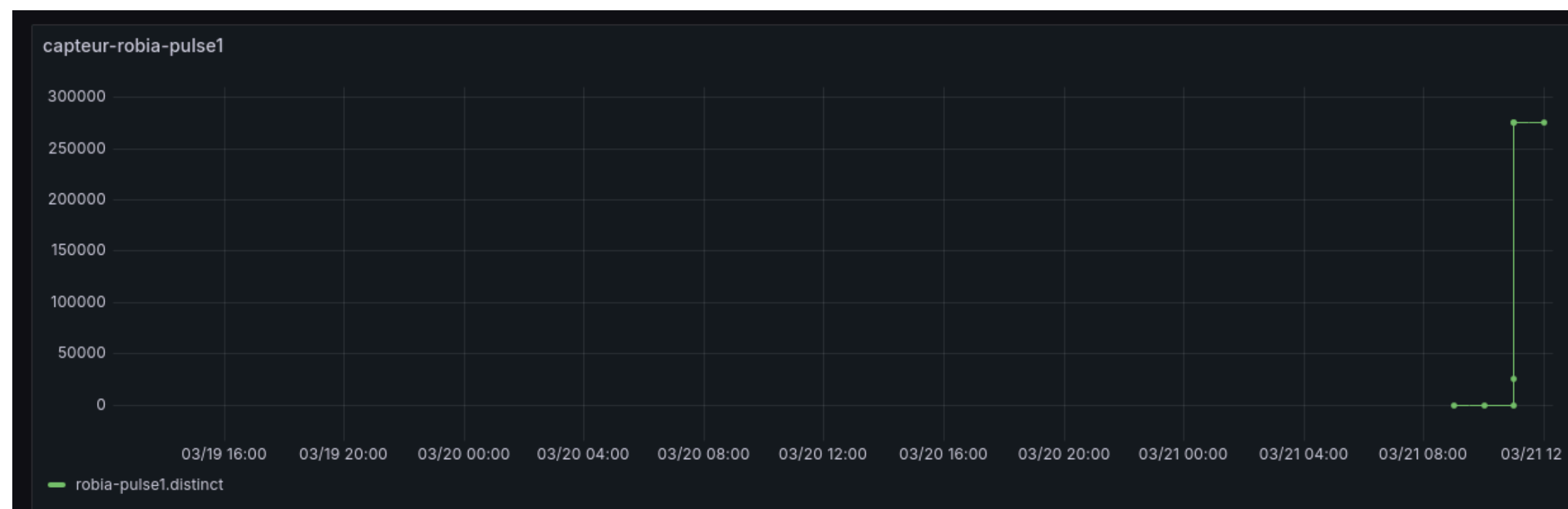
    // Append integer value to output
    msg.intValue = intValue;
} else {
    msg.intValue = null; // Not enough bytes to extract an integer
}

// Set output
msg.payload = {
    binaryString: binaryString,
    intValue: msg.intValue,
};
}else {
msg.payload = {
    binaryString: binaryString,
    intValue: -1,
};
}
return msg;

```

1

Screen node pour mise en forme donnée du capteur de pulsation



Screen de configuration de
l'affichage des pulsations

Queries 1 Transformations 1 Alert 0

Data source robias_monitoring

Query options MD = auto = 759 Interval = 5m

Query inspector

A (robias_monitoring)

FROM	default	robias-pulse1	×	WHERE	+	
SELECT	field (IntValue)	×	distinct ()	×	+	
GROUP BY	time (1h)	×	+			
TIMEZONE	(optional)	ORDER BY TIME	ascending	▼		
LIMIT	(optional)	SLIMIT	(optional)			
FORMAT AS	Time series	▼	ALIAS	Naming pattern		

1 - Convert field type

Field

robias-pulse1.dist...

as

Number



+ Convert field type

+ Add another transformation

× Delete all transformations

Prise_connectée_04-imprimante



Screen des graphiques
montrant la remonté de
donnée

Prise_connectée_02-aerotherme

