



DTS IoT Gateway

DTS Meter Points

Revision R21A

TABLE OF CONTENTS

1	SCOPE	2
1.1	IDENTIFICATION.....	2
1.2	INTRODUCTION	2
2	DTS METER POINTS	3
2.1	DTS Meter Configuration	4
2.2	DTS307-SM-Inv (Inverter Configuration).....	5

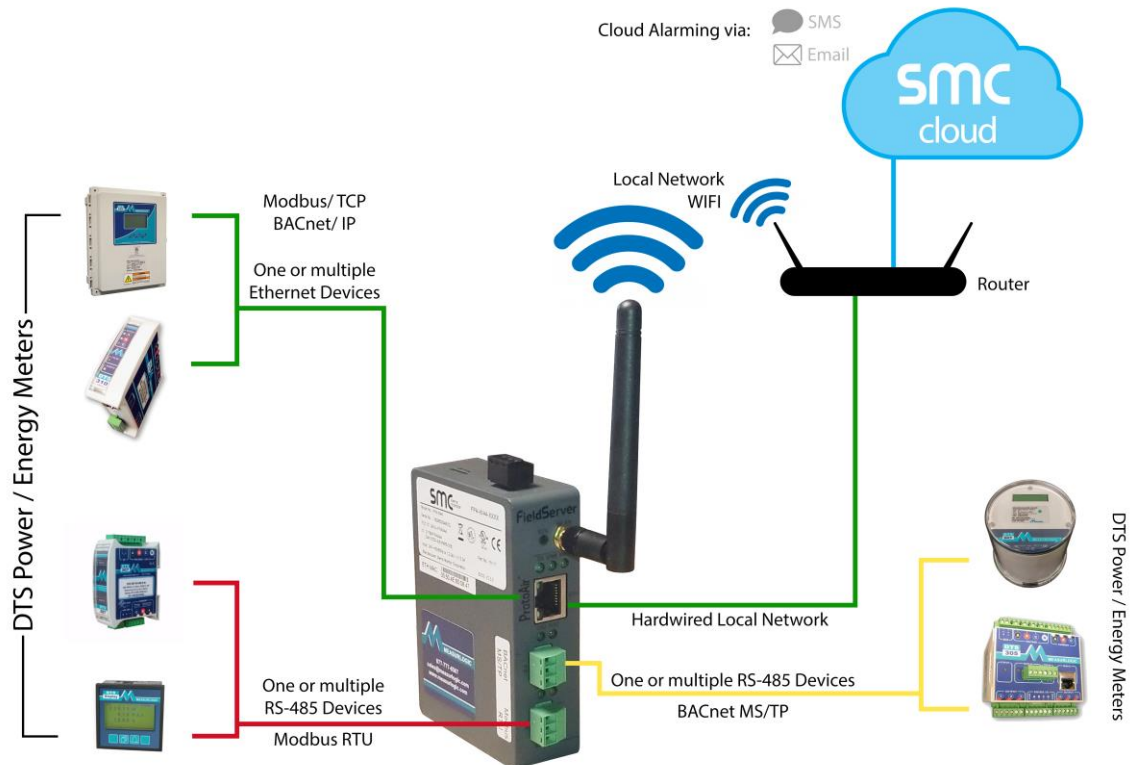
1 SCOPE

1.1 IDENTIFICATION

This document describes the DTS meter points that are monitored by the DTS IoT Gateway, which points are logged by default, as well as the default logging periods.

1.2 INTRODUCTION

The system overview of the DTS IoT Gateway and the SMC Cloud is shown here:



The DTS IoT Gateway hardware is preconfigured for DTS meters and supports:

- Multiple simultaneous interfaces: 1 x Ethernet, 2 x RS-485, Wi-Fi
- Any Serial or Ethernet, Modbus or BACnet DTS meter
- Up to 40 DTS meters per gateway

The Cloud interface is powered by the "SMC Cloud" and provides a "No Cost Cloud Interface":

- Remote monitoring, control and data visualization, providing access to real time and historical data
- Cloud alarming via SMS or email
- No annual subscription until 2023 for up to 50 data points per minute per gateway

2 DTS METER POINTS

For convenience, the DTS IoT Gateway defaults the logging of a sub-set of the available points to the SMC Cloud. These points are show on the next page.

- Any of the points that are monitored by the DTS IoT Gateway can be logged. This can be changed using the internal web pages in the DTS IoT Gateway.
- The default logging period for the standard logged points is 900 seconds or 15 minutes. This logging period can be changed using the internal web pages in the DTS IoT Gateway.
- It is only necessary to log points where history information is needed.
- Live values of any of the monitored points can be seen by tunneling directly into the DTS IoT Gateway. This is useful for trouble shooting and correcting installation problems.

2.1 DTS Meter Configuration

The following points are monitored and logged by default for the DTS meters.

Point Name	Point Description	Writable	Logged	Logging Period
CT_Ratings	CT Ratings	YES		
DmdP_Interval	Demand Interval (Seconds)	YES		
EnergyP_Tot_Imp	Active Energy consumed from grid		YES	900 sec / 15 mins
EnergyP_Tot_Exp	Active Energy returned to grid			
DmdP_Tot	Instantaneous Demand		YES	900 sec / 15 mins
DmdP_Tot_Max	Maximum Demand			
PowerP_1	Active Power Phase A		YES	900 sec / 15 mins
PowerP_2	Active Power Phase B		YES	900 sec / 15 mins
PowerP_3	Active Power Phase C		YES	900 sec / 15 mins
PowerP_Tot	Active Power Total		YES	900 sec / 15 mins
Curr_1	Current Phase A		YES	900 sec / 15 mins
Curr_2	Current Phase B		YES	900 sec / 15 mins
Curr_3	Current Phase C		YES	900 sec / 15 mins
Curr_Ave	Current Average			
Curr_Tot	Current Total			
Curr_N	Current Neutral			
PF_1	Power Factor Phase A			
PF_2	Power Factor Phase B			
PF_3	Power Factor Phase C			
PF_All	Power Factor Overall			
Volt_LN_1	Voltage Line-to-Neutral A			
Volt_LN_2	Voltage Line-to-Neutral B			
Volt_LN_3	Voltage Line-to-Neutral C			
Volt_LN_Ave	Voltage Line-to-Neutral Average			
Volt_LL_12	Voltage Line-to-Line A-B		YES	900 sec / 15 mins
Volt_LL_23	Voltage Line-to-Line B-C		YES	900 sec / 15 mins
Volt_LL_31	Voltage Line-to-Line C-A		YES	900 sec / 15 mins
Volt_LL_Ave	Voltage Line-to-Line Average			
Freq_1	Frequency			
EnergyP_1	Active Energy Phase A (net)			
EnergyP_2	Active Energy Phase B (net)			
EnergyP_3	Active Energy Phase C (net)			
EnergyP_Tot	Active Energy Total (net)			
DTS_Command	DTS Command Register	YES		
DTS_Command_Hi	DTS Command Register	YES		

2.2 DTS307-SM-Inv (Inverter Configuration)

The following points are monitored and logged by default for the DTS 307 meter when in Inverter mode.

Point Name	Point Description	Writable	Logged	Logging Period
CT_Panel	Panel CT Rating	YES		
CT_Inverter	Inverter CT Rating	YES		
DmdP_Interval	Demand Interval (Seconds)	YES		
EnergyP_Tot_Imp	Active Energy consumed from grid		YES	900 sec / 15 mins
EnergyP_Tot_Exp	Active Energy returned to grid		YES	900 sec / 15 mins
EnergyP_Inv_Imp	Active Energy from Inverter		YES	900 sec / 15 mins
DmdP_Tot	Instantaneous Demand			
DmdP_Tot_Max	Maximum Demand			
PowerP_1	Active Power for L1			
PowerP_2	Active Power for L2			
PowerP_Tot	Active Power Total for Panel		YES	900 sec / 15 mins
PowerP_Inv	Active Power from Inverter		YES	900 sec / 15 mins
Curr_1	Current in L1			
Curr_2	Current in L2			
Curr_Tot	Current Total for Panel			
Curr_Inv	Current from Inverter (L1)			
PF_1	Power Factor for L1			
PF_2	Power Factor for L2			
PF_All	Power Factor Overall for Panel			
PF_Inv	Power Factor Inverter			
Volt_LN_1	Voltage L1			
Volt_LN_2	Voltage L2			
Volt_LL_12	Voltage L1-L2			
Freq_1	Frequency			
EnergyP_1	Active Energy L1 (net)			
EnergyP_2	Active Energy L2 (net)			
EnergyP_Tot	Active Energy Total for Panel (net)			
EnergyP_Inv	Active Energy from Inverter (net)			
EnergyP_Inv_Exp	Active Energy used by Inverter			
DTS_Command	DTS Command Register	YES		
DTS_Command_Hi	DTS Command Register	YES		
SerialNumber	DTS Serial Number			