Device Type

P	*	Device Type ID	SurrogateKey
U		Device Type	DeviceType

Device Type PK (Device Type ID)
Device Type UK (Device Type)

Device

P	*	Device ID	SurrogateKey
		Device Name	VARCHAR (255)
		Device Abbreviation	VARCHAR (10)

Device PK (Device ID)

Measurement

P	*	Measurement ID	SurrogateKey
		Measurement Name	VARCHAR (255)
		CAN ID	NUMERIC
F		Device ID FK	SurrogateKey
F		Device Type ID FK	SurrogateKey
		Reporting Frequency	NUMERIC
		Measurement Type	VARCHAR

Measurement PK (Measurement ID)

Data Point

P	*	Data Point ID	SurrogateKey
		Data Point CAN ID	NUMERIC
		Name	VARCHAR (50)
		Description	VARCHAR (256)
		Data Length	NUMERIC
		CAN Data Offset	NUMERIC
		Data Type	VARCHAR
		Low Error Threshold	FLOAT
		Low Warning Threshold	FLOAT
		High Warning Threshold	FLOAT
		High Error Threshold	FLOAT
F	*	Measurement ID FK	SurrogateKey
		Units	VARCHAR (30)

Data Point PK (Data Point ID)

Long Term Trend Data

P	*	Long Term Trend Data ID	SurrogateKey
		Data Point CAN ID	NUMERIC
		Timestamp	Datetime
		Extended	Boolean (1)
		RTR	Boolean (1)
		Data Length	NUMERIC
		fValue	FLOAT
		iValue	NUMERIC
		cValue	CHAR (16)
		State	NotificationState

Long Term Trend Data PK (Long Term Trend Data ID)

Medium Term Trend Data

P	*	Medium Term Trend Data ID	SurrogateKey
		Data Point CAN ID	NUMERIC
		Timestamp	Datetime
		Extended	Boolean (1)
		RTR	Boolean (1)
		Data Length	NUMERIC
		fValue	FLOAT
		iValue	NUMERIC
		cValue	CHAR (16)
		State	NotificationState

Medium Term Trend Data PK (Medium Term Trend Data ...)

Measurement Data

P	*	Measurement Data ID	SurrogateKey
		Data Point CAN ID	NUMERIC
		Timestamp	Datetime
		Extended	Boolean (1)
		RTR	Boolean (1)
		Data Length	NUMERIC
		fValue	FLOAT
		iValue	NUMERIC
		cValue	CHAR (16)
		State	NotificationState

Measurement Data PK (Measurement Data ID)

Short Term Trend Data

P	*	Short Term Trend Data ID	SurrogateKey
		Data Point CAN ID	NUMERIC
		Timestamp	Datetime
		Extended	Boolean (1)
		RTR	Boolean (1)
		Data Length	NUMERIC
		fValue	FLOAT
		iValue	NUMERIC
		cValue	CHAR (16)
		State	NotificationState

Short Term Trend Data PK (Short Term Trend Data ID)