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Spec No: 002-05171

Spec Title: AN205171 - F2MC-8FX Family, MB95410H/470H Series One Phase Power Meter (RN8209) Payment Operation

Replaced by: None

AN205171

F²MC-8FX Family, MB95410H/470H Series One Phase Power Meter (RN8209) Payment Operation

This application note describes how to use One Phase Power Meter (RN8209) solution's payment function.

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1 Introduction

This application note describes how to use One Phase Power Meter (RN8209) solution's payment function.

Chapter 2 explains the background of payment.

Chapter 3 explains the FW function list.

2 Background

Background of Payment

2.1 Overview

When the energy value reaches 1KWH, the system will accumulate energy and deduct the charge.

3 FW Function List

3.1 API

Table 1. FW API List

Function Prototype	Description
void Payment_Init(void)	Initialize to load current tariff and credit
void PrepayInfoReminder(void)	Provide warning reminder for prepay
void LoadPaymentConfig(void)	Load prepayment system configuration
void SavePaymentConfig(void)	Save prepayment system configuration
void LoadPrepayState(void)	Load pre-payment current state from EEPROM
void SavePrepayState(void)	Save pre-payment current state into EEPROM
void GetTimeTariffRate(void)	Get current price under multiple time tariff payment scheme
void PowerSupplySwitchCtl(INT8U onOff)	Power cut-off / turn-on control
INT16U GetCurrentTariffRate(void)	Retrieve current tariff rate

3.2 HAL

Table 2. FW HAL List

Function Prototype	Description
void BalanceDeductPerKWH(void)	Deduct the charge per KWH
void BalanceDeductPerNPulse(INT16U pulseCnt)	Deduct the charge per N pulse count

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5 Document History

Document Title: AN205171 - F²MC-8FX Family, MB95410H/470H Series One Phase Power Meter (RN8209) Payment Operation

Document Number: 002-05171

Revision	ECN	Orig. of Change	Submission Date	Description of Change
**	-	HUAL	06/10/2011	Initial release
*A	5243097	HUAL	06/17/2016	Migrated Spansion Application Note MCU-AN-500113-E-10 to Cypress format There is no information how/where to acquire the RN8209 source code, So this AN is for obsolete.

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