Initial state

not connected

State A
Not connected
Start PWM and
wait

pwm detected

Car connected

lock signal

State B0
Connected and
not ready for
charging

Timeout (5secs)

unlock signal

Payment completed

Calculation and initiate payment

State B2
check for battery
status connected
and not charge

ISO15118 protocol detected

Protocol detected

Post payment animation trigger

Incomplete stop (manual stop)

Charging status and details

Selection of AC and DC charging

Initiate the payment procedure

Protocol not detected

Full charging signal

State C1
Allow selection of AC or
DC charging and
perform the charging

Payment details confirmation

State B1
Initialize detail
for ISO15118
before charging

State B5
assumed battery
level and payment
details

Incomplete stop (manual stop)

State B3
Check if there
is CP PP
voltage

Manual charge start toggle

Give vehicle details to start semi ISO 15118

Full charging signal

State C2
manually set
condition for charging
and select mode and
charge the battery

State B4
Manually initialize
conditions for IEC
61851 before
charging

Trigger manual charging mode with payment details

Error states

Error state
from any point
return to state B0 if
connected or to
state A if not

Manual charging error

CHARGING STATION FOR ISO 15118 FOR EVSE
Raspberry pi communication model
date: 28-02-2017