

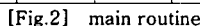
[Fig.1] Composition that propose in this research

Because keep just as it is do expression quantity for schedule time by built-in Battery at FIP type, lcd type power failure by indication contents preservation function at power failure, can solve attrition with gas station employee and customer and stability was lacking quantity, but do so that may insulate perfectly with interior system power supply using separate way become independent power supply of 24V and prove authoritativeness because using 5V interior power supply by outside i/o in existing control's case by stability increase by in-output signal power supply separation. Correct measuring is possible in some temperature because measure oil's temperature by digital semiconductor sensor by temperature compensation function by IC type temperature sensor attach, and compensate do flux coefficient automatically according to outside temperature. Actually, because introducing wireless internet service, can connect wireless environment LAN or CDMA, much wireless service communication methods of B-WLL and so on or internet through communication appliances that connect internet through mobile phone and use necessary information with existing wire environment. These requirement became attractive field that mobile communication businessman, existing wire internet businessman, mobile company develop technology for all profit enlargements. But, security side problem though is sitting these thing by wire, wireless interlock integration operation do must . Because various application target is possible official business application on stand, homelory, lpg,

overhead, FIP and lcd model, mpd by single main board product, there are enlargement for practical use of product and development expense curtailment effect and that is cray by strangeness and action Event Logging function to outside because operation situation, communication's send-receive contents of do suppression and something wrong occurrence substance of lubricator device, various Key manufacturing substances of oilman, each part chapter are recorded to interior memory down load can be done and problem grasping is easy on correct diagnosis and appliances operation about crame and so on through this

2.2 Composition of program processing

Programming processing has itself diagnostic function and do various enemy property and do last time oil supply amount inquiry function, one touch fixed sum-fixed quantity oil supply and proper move oil supply function, off can have registration and alteration function, password function and unusualness stop function, system check and error state display function, communication with point of sales system, oil supply shortening high spit out function and know in figure 2.



Ten key processes amount of money, liter setting, various data inputs displaying input extent (0 ~ 900,000). Also, shortcut can do amount of money that use frequency is much, liter setting. Itself diagnosis has do first build or when make a trial run lubricator diagnostic function, proper move suspension 1L alternate off acts alteration under part and register various data and 00 does proper move suspension 100 won finish processing while refuel closing and 0 0 0 does proper move suspension 1000 won finish processing while refuel while liter setting refuels in liter..

```

ok = PassROCheck(in);
{
    if(ok == OK){
        // 현재 위치 ... DisplaySelf(gP11, DoP11, GetTitle, Torf_11);
        DisplaySelfString(DoP11, Torf_11);
        DisplaySelf(PMem, "ok");
    }

    key_val = GET_KEY();
    // 현재 입력 조항 ...

    if(key_val == JCKSM){
        DisplaySelfString(DoP11, Torf_11);
        DisplaySelf(PMem, "CASH");
    }

    key_val = GET_KEY();
    // 현재 입력 조항 ...

    if(key_val == JCKSM){
        DisplaySelfString(0, Torf_0);
        DisplaySelf(PMem, "SAL");
    }

    key_val = GET_KEY();
    // 현재 입력 조항 ...

    BreakUp = 0;
}

// 현재 계산 ...
}

void TotalView()
{
    // ...
}

BYTE ok;
ok = PassROCheck(in);
{
    if(ok == OK){
        // 현재 위치 ... DisplaySelf(gP11, DoP11, GetTitle, Torf_1);
        DisplaySelfString(DoP11, Torf_1);
        DisplaySelf(PMem, "ok");
    }

    key_val = GET_KEY();
    // 현재 입력 조항 ...

    if(key_val == JCKSM){
        DisplaySelfString(DoP11, Torf_1);
        DisplaySelf(PMem, "CASH");
    }

    key_val = GET_KEY();
    // 현재 입력 조항 ...

    if(key_val == JCKSM){
        DisplaySelfString(0, Torf_0);
    }
}

```

(a) unit sales processing routine

(b) receipt processing routine
[Fig.3] monitor ring program

temperature oven characteristic test is displaying encoder special quality waveform and picture (f) is displaying improved noise characteristic wave style. (g) expresses value that measure digital oscilloscope, picture (h) filtering waveform (i) impulse waveform (j) mobile phone menu and so on that appear testing certification that use KT multipak appear .figure(k) is displaying kookmin zoomcard certification processing using K.merce. First, elect and install whole components in twin before characteristic test if examine special quality experiment procedure. That progress as a aspect and down edge of B go alternately necessarily and pulse's error by counter shock and noise is ignored like below picture though is input and oscillation wave style is happened during boating force of shock spit out that is strong than force of done flux be . Before solve shock itself, prove history about error occurrence for dose when tour as well as wave check.

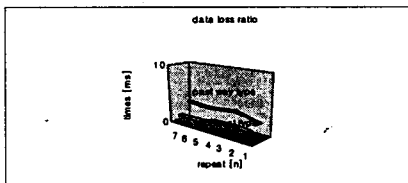
possible and analyze various problems such as data loss, blizzard CPU reset phenomenon, SSR, trigger badness that happen in part existing lubricator supplementing existing lubricator controller's problem and awareness of indication contents cuts off the electric .

References

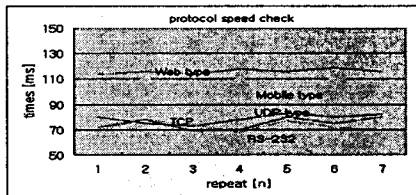
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[Fig.6] protocol speed detection



[Fig.7] existing control system and comparison of way that propose



[Fig.8] comparison existing communication method

4. Conclusion

TFT Color LCD Display employs display unit and processes by voice that gouge among way and manufacturing that switch does input by touch screen, user's manufacturing is simple and convenient by financial institution's ATM level degree and did so that control processing ability may be quick and correct, and hereafter get into enough correspondence to addition of extension function employing do main board's subject fishing ground because selecting high speed 32bit RISC CPU. Existing lubricator controller and function disaster caused by tigers and is being fungible and have perfection compatibility functionally with main Board can keep sterilization just as it is do indication during schedule time by built-in battery to when can keep indication contents and cut off the electricity when done existing main board's principal parts supplemented in reply because is