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303 // Bit: 76543210 Emulatet memory location 09 A
304 PCFa09 DB 00000000h /* hundredth of a second alarm*/// Counter
305 // ||||'+++-----> 1/100 s D0
306 // '+++-----> 1/10 s D1
307
308 // Bit: 76543210 Emulatet memory location 0A A
309 PCFa0A DB 00000000h /* alarm second */// Counter
310 // ||||'+++-----> 1 s D2
311 // '+++-----> 10 s D3
312
313 // Bit: 76543210 Emulatet memory location 0B A
314 PCFa0B DB 00000000h /* alarm minutes */// Counter
315 // ||||'+++-----> 1 min D4
316 // '+++-----> 10 min D5
317
318 // Bit: 76543210 Emulatet memory location 0C A
319 PCFa0C DB 00000000h /* alarm hours */ // Counter
320 // ||||'+++-----> 1 h free FRAM
321 // |'+-----> 10 h free FRAM
322 // |'-----+-[0]> AM
323 // |'-----+-[1]> PM
324 // |'-----+-[0]> 24 h format, AM/PM flag remains unchanged
325 // |'-----+-[1]> 12 h format, AM/PM flag will be updated
326
327 // Bit: 76543210 Emulatet memory location 0D A
328 PCFa0D DB 00000000h /* alarmyear/day */ // Counter
329 // ||||'+++-----> unit days BCD free FRAM
330 // ||'+-----> ten days (0 to 3 binary) free FRAM
331 // |+-----> year (0 to 3 binary) free FRAM
332
333 // Bit: 76543210 Emulatet memory location 0E A
334 PCFa0E DB 00000000h /* alarm weekday/month */// Counter
335 // |||||'-----> weekday 0 enabled when set free FRAM
336 // |||||'-----> weekday 1 enabled when set free FRAM
337 // |||||'-----> weekday 2 enabled when set free FRAM
338 // |||||'-----> weekday 3 enabled when set free FRAM
339 // |||||'-----> weekday 4 enabled when set free FRAM
340 // |||||'-----> weekday 5 enabled when set free FRAM
341 // |||||'-----> weekday 6 enabled when set free FRAM
342 // |'-----> Not used free FRAM
343
344 // Bit: 76543210 Emulatet memory location 09 A
345 PCFa0F DB 00000000h /* alarm Timer*/// Counter
346 // ||||'+++-----> 1 D0
347 // '+++-----> 10 D1
348
349 // Bit: 76543210 Control/status register
350 PCFb00 DB 00000000h // Emulatet memory location 00 A
351 // |||||'-----> timer flag
352 // |||||'-----> alarm flag
353 // |||||'-----+-[0]> alarm enable bit = Disable
354 // |||||'-----+-[1]> alarm enable bit = Enable
355 // |||||'-----+-[0]> mask flag =read locations 05 to 06 unmasked
356 // |||||'-----+-[1]> mask flag =read date and month count directly
357 // ||'+-----+-[00]> clock mode 32.768 kHz
358 // ||'+-----+-[01]> clock mode 50 Hz
359 // ||'+-----+-[10]> event-counter mode
360 // ||'+-----+-[11]> Advanced modes(Setting from FRAM used)
361 // |'-----+-[0]> count
362 // |'-----+-[1]> store and hold last count in capture latches
363 // |'-----+-[0]> count pulses
364 // |'-----+-[1]> stop counting, reset divider
365
366 // Bit: 76543210 Emulatet memory location 01 B
367 PCFb01 DB 00000000h /* hundredth of a second */// Counter
368 // ||||'+++-----> 1/100 s D0
369 // '+++-----> 1/10 s D1
370
371 // Bit: 76543210 Emulatet memory location 02 B
372 PCFb02 DB 00000000h /* second */ // Counter
373 // ||||'+++-----> 1 s D2
374 // '+++-----> 10 s D3
375
376 // Bit: 76543210 Emulatet memory location 03 B
377 PCFb03 DB 00000000h /* minutes */// Counter
378 // ||||'+++-----> 1 min D4
379 // '+++-----> 10 min D5
380
381 // Bit: 76543210 Emulatet memory location 04 B
382 PCFb04 DB 00000000h /* hours */ // Counter
383 // ||||'+++-----> 1 h free FRAM
384 // |'+-----> 10 h free FRAM
385 // |'-----+-[0]> AM
386 // |'-----+-[1]> PM
387 // |'-----+-[0]> 24 h format, AM/PM flag remains unchanged
388 // |'-----+-[1]> 12 h format, AM/PM flag will be updated

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389 //
390 // Bit: 76543210 Emulatet memory location 05 B
391 PCFb05 DB 00000000h /* year/day */ // Counter
392 // ||| '+++-----> unit days BCD free FRAM
393 // ||| '+-----> ten days (0 to 3 binary) free FRAM
394 // ||| '+-----> year (0 to 3 binary) free FRAM
395 //
396 // Bit: 76543210 Emulatet memory location 06 B
397 PCFb06 DB 00000000h /* weekday/month */ // Counter
398 // ||| '+++-----> unit months BCD free FRAM
399 // ||| '+-----> ten months free FRAM
400 // ||| '+-----> weekdays (0 to 6 binary) free FRAM
401 //
402 // Bit: 76543210 Emulatet memory location 07 B
403 PCFb07 DB 00000000h /* Day */ // Counter
404 // ||| '+++-----> 1 day timer T0
405 // ||| '+-----> 10 day timer T1
406 //
407 // Bit: 76543210 Emulatet memory location 08 B
408 PCFb08 DB 00000000h /* Alarm control Clock Mode */ // Alarm control event Mode
409 // ||| '+++[000]> no timer no timer
410 // ||| '+[001]> hundredths of a second units
411 // ||| '+[010]> seconds 100
412 // ||| '+[011]> minutes 10 000
413 // ||| '+[100]> hours 1 000 000
414 // ||| '+[101]> days not allowed
415 // ||| '+[110]> not used not allowed
416 // ||| '[111]> test mode, all counters in parallel
417 // ||| '---+--[0]> timer flag, no interrupt (Disabled)
418 // ||| '---+--[1]> timer flag, interrupt (Enabled)
419 // ||| '+-----+--[00]> no clock alarm function no event alarm
420 // ||| '+-----+--[01]> daily alarm function event alarm
421 // ||| '+-----+--[10]> weekday alarm function not allowed
422 // ||| '+-----+--[11]> dated alarm function not allowed
423 // ||| '-----+--[0]> no timer alarm (Disabled)
424 // ||| '-----+--[1]> timer alarm (Enabled)
425 // ||| '-----+--[0]> alarm flag, no interrupt (Disabled)
426 // ||| '-----+--[1]> alarm flag, interrupt (Enabled)
427 //
428 // Bit: 76543210 Emulatet memory location 09 B
429 PCFb09 DB 00000000h /* hundredth of a second alarm */ // Counter
430 // ||| '+++-----> 1/100 s D0
431 // ||| '+-----> 1/10 s D1
432 //
433 // Bit: 76543210 Emulatet memory location 0A B
434 PCFb0A DB 00000000h /* alarm second */ // Counter
435 // ||| '+++-----> 1 s D2
436 // ||| '+-----> 10 s D3
437 //
438 // Bit: 76543210 Emulatet memory location 0B B
439 PCFb0B DB 00000000h /* alarm minutes */ // Counter
440 // ||| '+++-----> 1 min D4
441 // ||| '+-----> 10 min D5
442 //
443 // Bit: 76543210 Emulatet memory location 0C B
444 PCFb0C DB 00000000h /* alarm hours */ // Counter
445 // ||| '+++-----> 1 h free FRAM
446 // ||| '+-----> 10 h free FRAM
447 // ||| '-----+--[0]> AM
448 // ||| '-----+--[1]> PM
449 // ||| '-----+--[0]> 24 h format, AM/PM flag remains unchanged
450 // ||| '-----+--[1]> 12 h format, AM/PM flag will be updated
451 //
452 // Bit: 76543210 Emulatet memory location 0D B
453 PCFb0D DB 00000000h /* alarm year/day */ // Counter
454 // ||| '+++-----> unit days BCD free FRAM
455 // ||| '+-----> ten days (0 to 3 binary) free FRAM
456 // ||| '+-----> year (0 to 3 binary) free FRAM
457 //
458 // Bit: 76543210 Emulatet memory location 0E B
459 PCFb0E DB 00000000h /* alarm weekday/month */ // Counter
460 // ||| '-----> weekday 0 enabled when set free FRAM
461 // ||| '-----> weekday 1 enabled when set free FRAM
462 // ||| '-----> weekday 2 enabled when set free FRAM
463 // ||| '-----> weekday 3 enabled when set free FRAM
464 // ||| '-----> weekday 4 enabled when set free FRAM
465 // ||| '-----> weekday 5 enabled when set free FRAM
466 // ||| '-----> weekday 6 enabled when set free FRAM
467 // ||| '-----> Not used free FRAM
468 //
469 // Bit: 76543210 Emulatet memory location 09 B
470 PCFb0F DB 00000000h /* alarm Timer */ // Counter
471 // ||| '+++-----> 1 D0
472 // ||| '+-----> 10 D1
473 //

```